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COG (ConocoPhillips)

2024 Soil Remediation Summary and Closure Request Report

Asio Otus Fed #003H (07.16.23)

Eddy County, New Mexico

Incident # NAPP2320851728

August 2024

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Appendix A. **Initial C-141 Form Incident # NAPP2320851728**

Appendix B. **Site Characterization Data**

Appendix C. **Work Plan**

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Appendix E. **Laboratory Analytical Reports**

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Remediation Summary and Closure Request Report (Report), on behalf of Concho Operating, LLC (COG – now ConocoPhillips), for the release site known as the Asio Otus Fed #003H (Site) at coordinates 32.034391, -104.241968. Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located on federal land approximately 25-miles southwest of the City of Malaga in Unit A, Section 24, Township 26 South, Range 26 East, Eddy County, New Mexico. The site is located within a high karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # NAPP2320851728

According to the Initial C-141 Form, on July 16, 2023 a steel flowline failed due to corrosion, resulting in the release of approximately 13.752 barrels (bbls) of produced water to ground surface at the Site with 0 bbls recovered. The Initial C-141 Form was submitted to the NMOCD and assigned Incident ID number NAPP2320851728. The Initial C-141 Form is included as **Appendix A.**

3 Site Characterization

3.1 Initial Site Characterization

Soil assessment activities were performed at the Site on October 16 and December 5, 2023 by Carmona Resources to determine the horizontal and vertical extent of the release area.

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources within a 0.5-mile radius of the Site. A water well was located approximately 1.33 miles north of the site with a depth to water of 12.60 feet below ground surface (bgs). As such, assessment activities completed to date and proposed remediation/reclamation activities at the Site have been evaluated assuming a Site with a depth to groundwater as less than 50 feet bgs. The following site characteristics were determined in accordance with 19.15.29 New Mexico Administrative Code (NMAC):

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

- A continuously flowing watercourse or any other significant watercourse: Between 1/2 and 1 miles
- Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark): Between 1 and 5 miles
- An occupied permanent residence, school, hospital, institution, or church: > 5 miles
- A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes: Between > 5 miles
- Any other fresh water well or spring: Between 1 and 5 miles
- Incorporated municipal boundaries or a defined municipal fresh water well field: >5 miles

- A wetland: Between 1/2 and 1 miles
- A subsurface mine: >5 miles
- A (non-karst) unstable area: Zero feet, overlying, or within area
- Categorize the risk of this well/site being in Karst Geology: High
- A 100-year floodplain: Between 1 and 5 miles
- Did the release impact areas not on an exploration, development, production, or storage site? Yes

The site characterization data is presented in **Appendix B.**

3.2 Soil Assessment Activities

In October and December 2023, Carmona Resources performed site assessment activities to evaluate soil impacts stemming from the release. A total of nineteen (19) sample points were advanced to depths ranging from the surface to 7 feet bgs inside and surrounding the release area to evaluate the vertical and horizontal extents of the release.

Horizontal and vertical delineation was assessed in each cardinal direction to determine the potential area of concern. Arcadis used this data and field screening to guide proposed remediation activities prior to collecting any confirmation laboratory analytical samples. The initial proposed remediation/reclamation activities and site characterization for the impacted areas are detailed in the 2023 Work Plan submitted previously by Carmona Resources to the NMOCD (see **Appendix C**).

4 Closure Criteria for Soils Impacted by a Release

The NMOCD classifies the Site to use the most stringent regulatory limits due to depth to groundwater being assumed less than 50 feet bgs and no documented water wells within ½ mile of the site. Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for both reclamation and remediation activities:

Constituent	Limit (mg/kg)
Chloride	600 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	100 mg/kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/kg
Benzene	10 mg/kg

5 Remediation Activities Summary

5.1 Soil Removal

Prior to any intrusive activities, a NM One Call notification and a private utility locate (ground penetrating radar) were conducted to clear the area and identify underground utilities.

Soil remediation activities were performed by Arcadis and Standard Safety from June 25 through July 18, 2024. Photo-ionization detector (PID) readings, chloride field screening with Hach field test strip results, and laboratory analytical results from the pre-remediation assessment activities were evaluated prior to and during remediation activities to determine the lateral and vertical extent of soil impacted by the release. Lateral and vertical delineation of the impacted soil requiring removal was based on samples collected from the perimeter and bottom of the release area. Based on these results, it was determined that the release covered an approximately 11,800 square foot (sq ft) area in the pasture. Soil analytical results are discussed in **Sections 5.3, 5.4,** and **5.5**.

Excavation activities were conducted to a maximum depth of approximately 6 feet bgs in the pasture area. Approximately 2,280 cubic yards of impacted soil were excavated from the release area. The limits of the excavation are presented on **Figure 3**. Excavated soil was stockpiled on-site, adjacent to the release area on 20 millimeter (mil) thick plastic sheeting and covered with 20 mil plastic sheeting during remediation activities.

The stockpiled soil was disposed offsite at the R360 Red Bluff Landfill facility located at 5053 US Hwy 285, in Orla, Texas as Class 2 non-hazardous material. Standard transported a total of 2,280 cubic yards of soil directly to the landfill on June 27 through July 17, 2024. Copies of disposal manifests can be provided upon request. Photographic documentation of the excavation activities is attached in the **Photographic Log**.

5.2 Excavation Confirmation Sampling Activities

Arcadis personnel conducted excavation confirmation soil sampling activities on June 25 through July 11, 2024 for laboratory analyses. Following excavation of the impacted area, confirmation soil samples were collected from the sidewalls and bottom of the excavation as needed to maintain an approximate 200 square foot sample spacing or less as approved by the NMOCD in accordance with NMAC 19.15.29.12(D)(1)(b) for both sidewalls and base of the excavated area. Once backfill was delivered from the R360 Red Bluff Landfill facility, a 5-point composite sample was collected from the backfill material to confirm all constituents were below the NMOCD reclamation limits for chloride, TPH, and BTEX. Sidewall confirmation sample locations are depicted in **Figure 3** and excavation base confirmation samples are depicted in **Figure 4**.

The soil confirmation soil samples were collected in 4-oz jars provided by Eurofins Xenco Analytical Laboratory (Eurofins) located in Midland, Texas, then placed on ice and shipped to Eurofins for analysis of chloride by United States Environmental Protection Agency (USEPA) Method 300; TPH by Method 8015 M for GRO, DRO, and ORO; and BTEX by USEPA Methods 8015/8021. Analytical results are shown in **Table 1**. Laboratory analytical reports are included in **Appendix D.**

5.3 Chloride

All soil samples collected within the excavation were below the NMOCD reclamation and remediation limit of 600 mg/kg.

5.4 TPH

TPH concentrations were reported below the NMOCD reclamation and remediation limit of 100 mg/kg at all sample locations for GRO, DRO, and ORO in all soil samples collected.

5.5 BTEX

Benzene concentrations were reported below the NMAC standard of 10 mg/kg at all sample locations. BTEX concentrations were reported below the NMAC standard of 50 mg/kg at all sample locations.

6 Restoration, Reclamation, and Re-Vegetation Activities

The Reclamation Plan outlined in the NMOCD approved work plan was completed.

Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration limits had been removed from the surrounding pasture areas, the excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near the original relative positions. On August 5, 2024, the affected area was contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable with a tractor and hopper attachment to broadcast the seed. 11,800 sq ft of the excavated areas were topped with a topsoil similar to the native surrounding pasture material and reseeded with a BLM #2 seed mixture. After reseeding the entire reclamation area was wet down to set the seed and promote vegetative growth.

7 Summary

Analytical results associated with recent remediation activities conducted in 2024 indicate that the horizontal and vertical extent of chloride, TPH, and BTEX impact in soil above NMAC screening standards for a site with depth the groundwater less than 50 feet bgs have been delineated both horizontally and vertically and excavated from the impacted area. All areas were backfilled with the clean material and graded to match the original surface conditions and drainage. Approximately 11,800 square feet of the area of concern located within the pasture area was reclaimed to original condition and re-seeded.

8 Soil Closure Request

Remediation activities were conducted in accordance with the NMOCD standards outlined in Table I of NMAC part 19.15.29.12 utilizing 200 square foot composite areas. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria in each of the submitted soil samples for all remediated areas at the Site.

Based on laboratory analytical results and field activities conducted to date, no additional soil assessment, remediation, or reclamation activities are recommended at this time for TPH, BTEX, or chloride impacts in soil at the Site.

Arcadis requests closure be granted to the Asio Otus Fed #003H (07.16.23) site for Incident ID number NAPP2320851728.

Tables

Table 1
2024 Soil Sample Analytical Results
Asio Otus Fed #003H (07.16.23)
Eddy County, New Mexico
COG (ConocoPhillips)

Sample ID	Date	Depth (ft)	Soil Status	BTEX Methods					TPH Methods				Cl Method
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	ORO C28-C36 (mg/kg)	Total TPH (mg/kg)	Chloride, Dissolved (mg/kg)
B-1	6/25/2024	2.5	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	12.2 J B	<15.0	<12.5	<15.0	104
B-2	6/25/2024	2.5	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	12.2 J B	<15.0	<12.5	<15.0	131
B-3	6/25/2024	2.5	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	31.6 J B	<14.9	<12.5	31.6 J	107
B-4	6/25/2024	2.5	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	21.4 J B	<14.9	<12.5	21.4 J	58.4
B-5	6/25/2024	2.5	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	41.0 J B *1	23.9 J	<12.4	64.9	231
B-6	6/26/2024	6	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	38.4 J B *1	24.6 J	<12.5	63.0	338
B-7	6/26/2024	6	Removed	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	45.2 J B *1	22.0 J	<12.5	67.2	**750**
B-7A	7/8/2024	6	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	10.7 F1
B-8	6/26/2024	6	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	46.0 J B *1	21.2 J	<12.5	67.2	377
B-9	6/26/2024	3	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	30.8 J B *1	23.2 J	<12.5	54.0	211
B-10	6/26/2024	3	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<11.0	28.6 J	<12.5	28.6 J	111
B-11	7/1/2024	4	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	11.1 J	<15.0	<12.5	<15.0	62.0
B-12	7/1/2024	4	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	11.0 J	<14.9	<12.5	<14.9	244 F1
B-13	6/27/2024	3	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	12.6 J B	23.2 J	<12.5	35.8 J	536
B-14	7/1/2024	4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	11.7 J	<15.0	<12.5	<15.0	40.6
B-15	7/1/2024	4	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	11.9 J	<15.0	<12.5	<15.0	32.9
B-16	7/1/2024	4	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	17.2 J	<14.9	<12.5	17.2 J	5.36
B-17	7/1/2024	4	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	11.7 J	<14.9	<12.4	<14.9	102
B-18	7/1/2024	4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	17.5 J	<14.9	<12.5	17.5 J	64.1
B-19	7/1/2024	4	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	32.9 J	<15.0	<12.5	32.9 J	36.3
B-20	7/1/2024	4	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<10.9	<14.9	<12.4	<14.9	74.3
B-21	7/1/2024	4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<10.9	<14.9	<12.5	<14.9	96.7
B-22	7/2/2024	2	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	273
B-23	7/2/2024	2	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.7	<49.7	<49.7	<49.7	254
B-24	7/2/2024	2	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	402
B-25	7/2/2024	2	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	233
B-26	7/2/2024	2	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	226
B-27	7/2/2024	2	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	32.2
B-28	7/2/2024	2	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8	<49.8	<49.8	<49.8	59.6
B-29	7/2/2024	3	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	114
B-30	7/2/2024	3	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.7	<49.7	<49.7	<49.7	71.2
B-31	7/2/2024	3	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	341
B-32	7/2/2024	3	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	72.5
B-33	7/2/2024	3	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	69.5
B-34	7/2/2024	3	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	186
B-35	7/2/2024	3	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	140
B-36	7/2/2024	3	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	175
B-37	7/9/2024	5	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	33.2
B-38	7/9/2024	5	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.4	<15.0	<15.0	<15.0	51.4
B-39	7/9/2024	5	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	71.6
B-40	7/9/2024	5	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	39.0
B-41	7/9/2024	5	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	252
B-42	7/9/2024	5	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	600
B-43	7/9/2024	5	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	228
B-44	7/9/2024	5	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	236
B-45	7/9/2024	4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	126
B-46	7/9/2024	4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	154
B-47	7/9/2024	4	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.6	<15.2	<15.2	<15.2	225

Table 1
2024 Soil Sample Analytical Results
Asio Otus Fed #003H (07.16.23)
Eddy County, New Mexico
COG (ConocoPhillips)

Sample ID	Date	Depth (ft)	Soil Status	BTEX Methods					TPH Methods				Cl Method
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	ORO C28-C36 (mg/kg)	Total TPH (mg/kg)	Chloride, Dissolved (mg/kg)
B-48	7/9/2024	4	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.6	<15.2	<15.2	<15.2	338
B-49	7/9/2024	4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	221
B-50	7/9/2024	4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	195
B-51	7/9/2024	4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	204
B-52	7/9/2024	4	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	194 F1
B-53	7/10/2024	4	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	76.1	<15.1	76.1	307
B-54	7/11/2024	4	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	187
B-55	7/10/2024	4	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	71.5
B-56	7/10/2024	4	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	185
B-57	7/10/2024	4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.6	<15.2	<15.2	<15.2	94.5
B-58	7/10/2024	4	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	88.9
B-59	7/10/2024	4	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.6	<15.2	<15.2	<15.2	309
Soil Pile	7/1/2024	--	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<11.0	<15.0	<12.5	<15.0	226
SW-1	6/25/2024	0-2.5	Removed	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	22.0 J B	<14.9	<12.4	22.0 J	**783 F1**
SW-1A	7/2/2024	0-2	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.6	<49.6	<49.6	<49.6	146
SW-2	6/25/2024	0-2.5	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<10.9	<14.9	<12.5	<14.9	422
SW-3	6/26/2024	0-6	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	43.5 J B *1	25.4 J	<12.4	68.9	356
SW-4	6/26/2024	0-6	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	28.5 J B *1	27.9 J	<12.5	56.4	51.2
SW-5	6/26/2024	0-6	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	46.9 J B *1	20.3 J	<12.4	67.2	318
SW-6	7/1/2024	0-4	In-Situ	<0.00138	<0.00198	<0.00108	0.00234 J	0.00234 J	11.5 J	<14.9	<12.4	<14.9	279
SW-7	7/1/2024	0-4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<10.9	<14.9	<12.4	<14.9	181
SW-8	7/2/2024	0-2	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.7	<49.7	<49.7	<49.7	499
SW-9	7/2/2024	0-2	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.7	<49.7	<49.7	<49.7	196
SW-10	7/2/2024	0-2	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	192
SW-11	7/2/2024	0-3	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8	<49.8	<49.8	<49.8	150
SW-12	7/2/2024	0-3	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	37.6
SW-13	7/2/2024	0-4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	115
SW-14	7/9/2024	0-5	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	56.7
SW-15	7/9/2024	0-5	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.4	<15.0	<15.0	<15.0	419
SW-16	7/9/2024	0-4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	479
SW-17	7/9/2024	0-4	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	140
SW-18	7/11/2024	4	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.4	<15.0	<15.0	<15.0	146
SW-19	7/11/2024	4	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.4	<15.0	<15.0	<15.0	147
SW-20	7/10/2024	0-4	In-Situ	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.4	17.1 J B *1	<15.0	17.1 J	416
NMOCD Reclamation Standard				**10**	**- -**	**- -**	**- -**	**50**	**- -**	**- -**	**- -**	**100**	**600**
NMOCD Closure Criteria				**10**	**- -**	**- -**	**- -**	**50**	**- -**	**- -**	**- -**	**100**	**600**

Legend:

BOLD: Analytes exceeding NMAC standards

J: Result is less than the RL but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B: Compound was found in the blank and sample.

F1: Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery exceeds control limits.

*1 : Laboratory Control Sample (LCS)/ Laboratory Sample Control Duplicate (LCSD) Relative Percent Difference (RPD) exceeds control limits.

<' indicates the analyte was not detected at or above the MDL.

mg/kg: Milligram per Kilogram

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

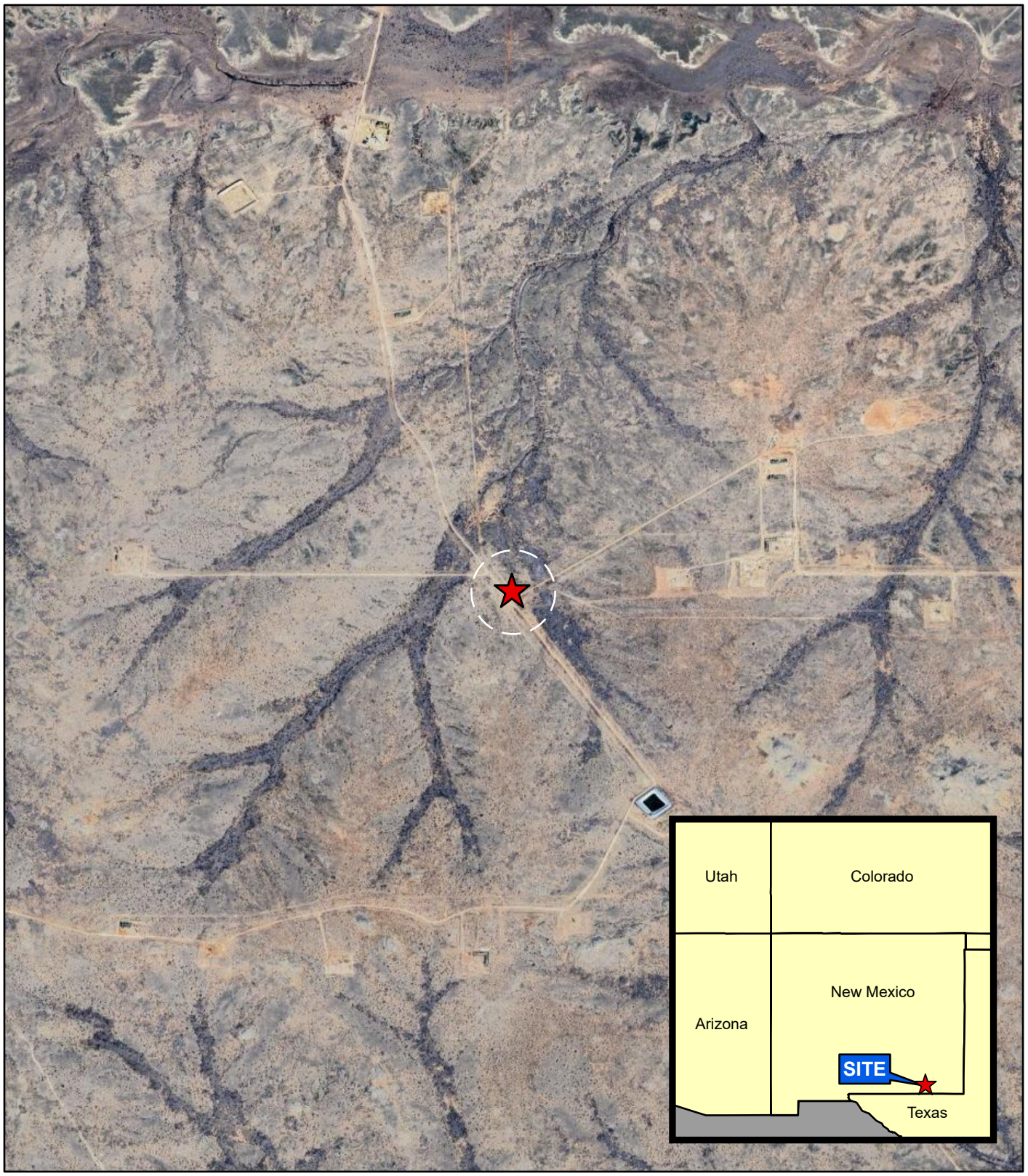
NMAC : New Mexico Administration Code

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

Table 1
2024 Soil Sample Analytical Results
Asio Otus Fed #003H (07.16.23)
Eddy County, New Mexico
COG (ConocoPhillips)

Sample ID	Date	Depth (ft)	Soil Status	BTEX Methods					TPH Methods				Cl Method
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	ORO C28-C36 (mg/kg)	Total TPH (mg/kg)	Chloride, Dissolved (mg/kg)
TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics													
TPH ORO: Total Petroluem Hydrocarbons Oil Range Organics													
B: Base sample													
SW : Sidewall sample													
Notes:													
1. Chloride analyzed by EPA Method 300													
2. TPH analyzed by EPA Method 8015B NM													
3. BTEX analyzed by Method SW8021B													
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)													
NMOCD: New Mexico Oild Conservation Division													
--: No individual standard													

Figures



Legend

Site Location

Datum: D_WGS_1984
Source: ESRI Online, Google Earth
Site Location: 32.034689°, -104.242099°

0 2,000 4,000 Feet

GRAPHIC SCALE

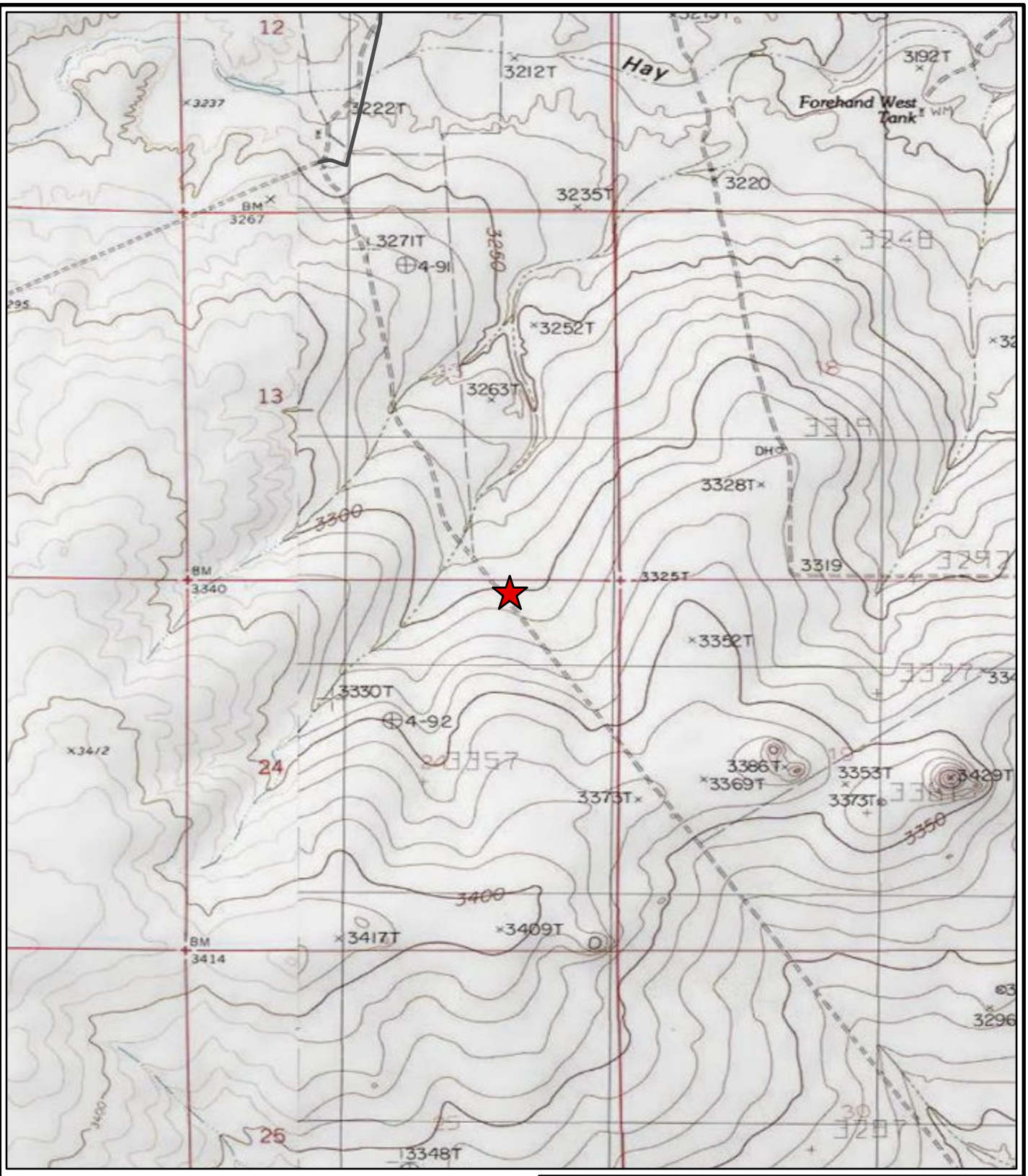
COG (CONOCOPHILLIPS)
ASIO OTUS FED #003H (07.16.23)
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: avi00976 ; Client (Project #)
T:_ENV\Upstream\Asio Otus Fed 003H_Pro\Asio Otus Fed #003H.aprx 8/13/2024 2:51 PM



Legend

Site Location

Datum: D_WGS_1984
Source: ESRI Online, USGS 24,000 K Topo (Map Service)
Red Lake, New Mexico Quadrangle
Site Location: 32.034689°, -104.242099°

0 2,000 4,000 Feet

GRAPHIC SCALE

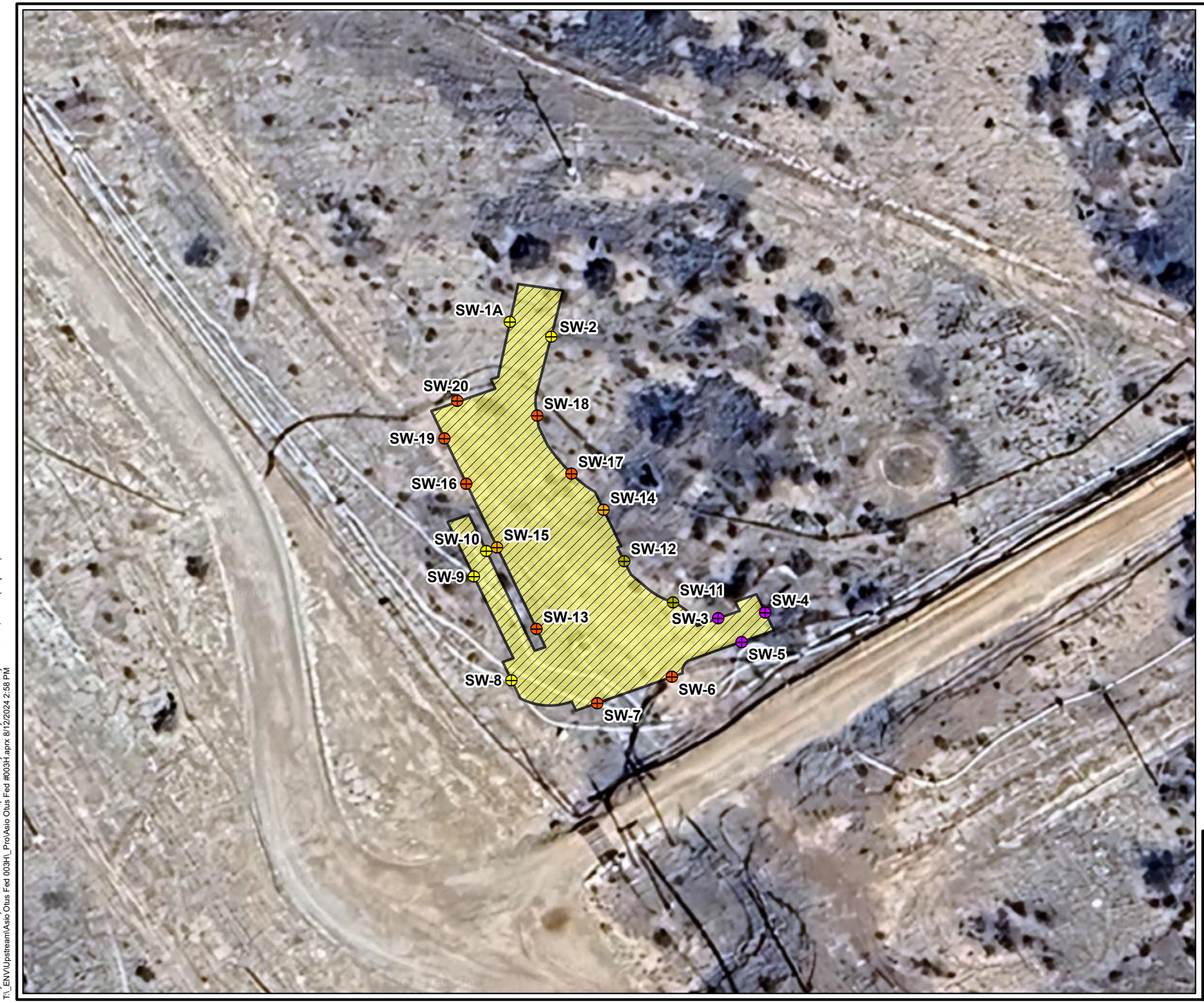
COG (CONOCOPHILLIPS)
ASIO OTUS FED #003H (07.16.23)
EDDY COUNTY, NEW MEXICO

TOPOGRAPHIC MAP

ARCADIS

FIGURE 2

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: avi00976 ; Client (Project #) T:_ENV\Upstream\Asio Otus Fed 003H_Pro\Asio Otus Fed #003H aprx 8/12/2024 2:52 PM



LEGEND:

Sidewall Soil Sample Location

- 0-2' Sample Depth
- 0 -3' Sample Depth
- 0-4' Sample Depth
- 0-5' Sample Depth
- 0-6' Sample Depth
- Excavated Area

0 50 100 Feet

GRAPHIC SCALE

Datum: D_WGS_1984
Source: ESRI Online, Google Earth 06/12/2023
Site Location: 32.034689°, -104.242099°

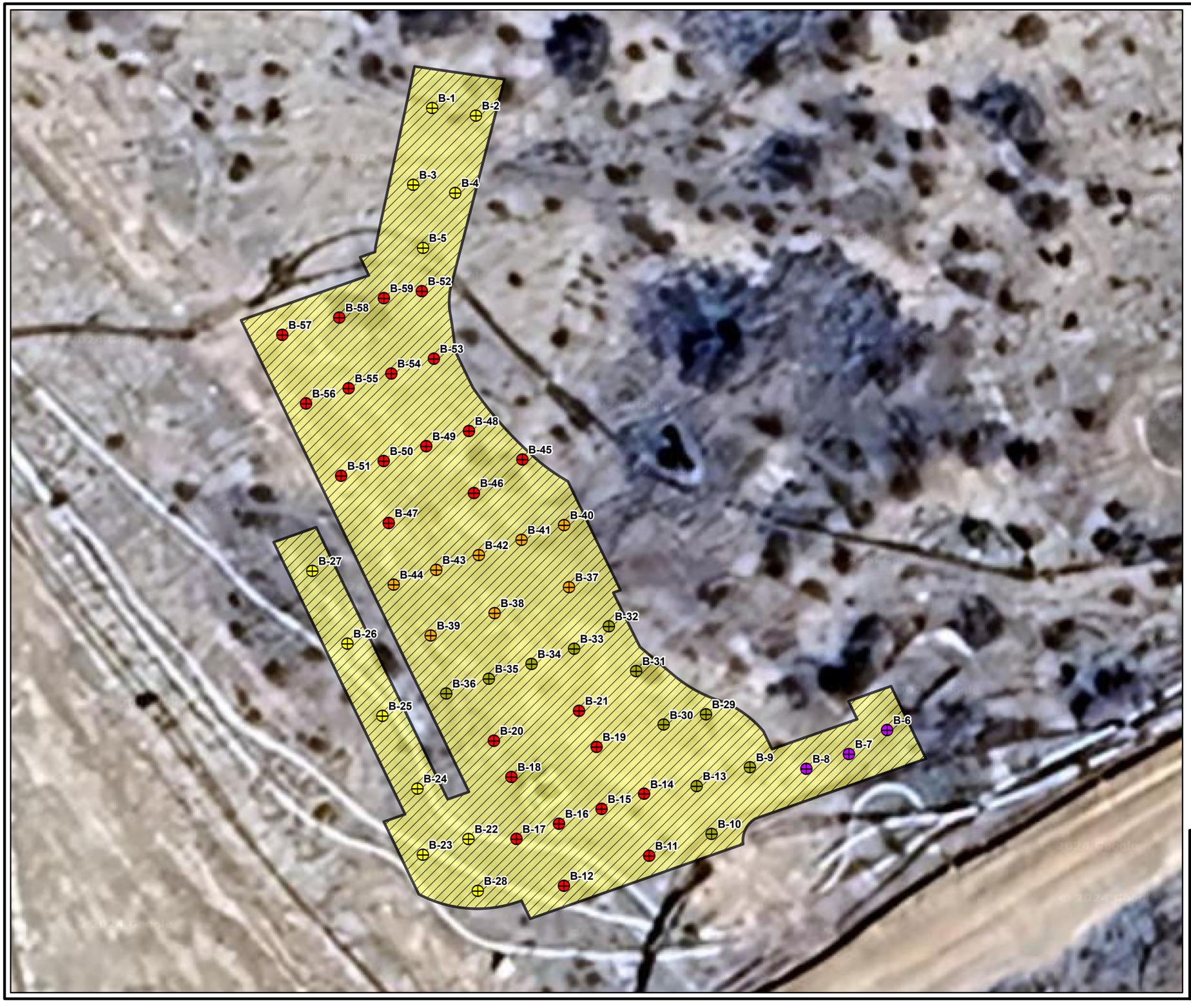
COG (CONOCOPHILLIPS)
ASIO OTUS FED #003H (07.16.23)
EDDY COUNTY, NEW MEXICO

EXCAVATION SIDEWALL SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: avi00976 ; Client (Project #)
T:_ENV\Upstream\Asio Otus Fed 003H_Pro\Asio Otus Fed #003H.aprx 8/12/2024 2:58 PM



LEGEND:

Base Soil Sample Location

- ⊕ - 2' Sample Depth
- ⊕ - 3' Sample Depth
- ⊕ - 4' Sample Depth
- ⊕ - 5' Sample Depth
- ⊕ - 6' Sample Depth
- Excavated Area

0 25 50 Feet

GRAPHIC SCALE

Datum: D_WGS_1984
Source: ESRI Online, Google Earth 06/12/2023
Site Location: 32.034689°, -104.242099°

COG (CONOCOPHILLIPS)
ASIO OTUS FED #003H (07.16.23)
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 4

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: avi00976 ; Client (Project #)
T:_ENV\Upstream\Asio Otus Fed 003H_Pro\Asio Otus Fed #003H.aprx 8/12/2024 5:04 PM

Photographic Logs

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Asio Otus Fed #003H (07.16.23)	Eddy County, NM	NAPP2320851728

Photo No.	Date:
1	07/10/2024

Direction Photo Taken:

N

Description:

Center Excavation

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Asio Otus Fed #003H (07.16.23)	Eddy County, NM	NAPP2320851728

Photo No.	Date:
2	07/10/2024

Direction Photo Taken:

NW

Description:

Western excavation area

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Asio Otus Fed #003H (07.16.23)	Eddy County, NM	NAPP2320851728

Photo No.	Date:
3	07/10/2024

Direction Photo Taken:

NE

Description:

Center of excavation

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Asio Otus Fed #003H (07.16.23)	Eddy County, NM	NAPP2320851728

Photo No.	Date:
4	08/05/2024

Direction Photo Taken:

W

Description:

Reclamation seeding

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Asio Otus Fed #003H (07.16.23)	Eddy County, NM	NAPP2320851728

Photo No.	Date:
5	08/05/2024

Direction Photo Taken:

N

Description:

Live seed in soil

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Asio Otus Fed #003H (07.16.23)	Eddy County, NM	NAPP2320851728

Photo No.	Date:
6	08/05/2024

Direction Photo Taken:

NW

Description:

Water pack reseeded area for growth and erosion control

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Asio Otus Fed #003H (07.16.23)	Eddy County, NM	NAPP2320851728

Photo No.	Date:
7	08/05/2024

Direction Photo Taken:

NE

Description:

Backfilled remediation area

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Asio Otus Fed #003H (07.16.23)	Eddy County, NM	NAPP2320851728

Photo No.	Date:
8	08/05/2024

Direction Photo Taken:

N

Description:

BLM seed mixture

Appendix A

Initial C-141 Form Incident # NAPP2320851728

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2320851728
District RP	
Facility ID	fAPP2202647776
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jacqui Harris	Contact Telephone	(575) 496-0780
Contact email	Jacqui.Harris@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2320851728
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.0344 Longitude -104.2419
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Asio Otus Federal 003H	Site Type	Flowline
Date Release Discovered	July 16, 2023	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
A	24	26S	26E	Eddy

Surface Owner: ☐ State ■ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
■ Produced Water	Volume Released (bbls) 13.752	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a flowline rupture due to corrosion.
The release was off the pad.
Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2320851728
District RP	
Facility ID	fAPP2202647776
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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.
- ■ The impacted area has been secured to protect human health and the environment.
- ■ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Printed Name: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 7/27/2023

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: _____ Date: _____

Spill Calculation - Subsurface Spill - Rectangle									Remediation Recommendation	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	[redacted]	Total Estimated Contaminated Soil, uncompacted, 25% (yd^3.)	Current Rule of Thumb - RMR Handover Volume, (yd^3.)
Rectangle A	250.0	50.0	0.5	Off-Pad	14.60%	92.71	13.54		24.11	
Rectangle B	20.0	10.0	0.5	Off-Pad	14.60%	1.48	0.22		0.39	
Rectangle C				Off-Pad	14.60%	0.00	0.00		0.00	
Rectangle D				Off-Pad	14.60%	0.00	0.00		0.00	
Rectangle E				Off-Pad	14.60%	0.00	0.00		0.00	750
Rectangle F						0.00			0.00	
Rectangle G						0.00			0.00	
Rectangle H						0.00			0.00	
Rectangle I						0.00			0.00	
Rectangle J						0.00			0.00	
						Total Subsurface Volume Released:	13.7520		24.50	BU

Appendix B

Site Characterization Data

Received by OCD: 9/5/2024 9:00:34 AM

Nearest Water Wells

COG Operating

Legend

- 0.50 Mile Radius
- 1.33 Miles
- 1.86 Miles
- 1.93 Miles
- NMSEO Water Well
- Asio Otus Federal 003H (07.16.23)
- USGS Water Well

12.60' Drilled 2018

35.92' - Drilled 1998

31' Drilled 1980

Asio Otus Federal 003H (07.16.23)

N

1 mi

Google Earth

Released to Imaging: 9/23/2024 11:17:35 AM

Received by OCD: 9/5/2024 9:00:34 AM

High Karst
COG Operating

Legend
Asio Otus Federal 003H (07.16.23)
High

Asio Otus Federal 003H (07.16.23)

Google Earth

N

4000 ft

Released to Imaging: 9/23/2024 11:17:35 AM

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04269 POD1	CUB	ED	4	2	3	18	26S	27E	572620	3545176	1303	105		
C 02438	CUB	ED	4	2	3	12	26S	26E	571015	3546705*	1996	30		
C 02218	CUB	ED	4	1	4	07	26S	27E	573039	3546725*	2577	35		
C 01887	C	ED	4	4	2	15	26S	26E	568614	3545497*	2876	53	31	22
C 02439	CUB	ED	2	4	2	15	26S	26E	568614	3545697*	2935	30		

Average Depth to Water: **31 feet**

Minimum Depth: **31 feet**

Maximum Depth: **31 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 571390 **Northing (Y):** 3544744 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S

Groundwater | New Mexico | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320320104145101

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320320104145101 26S.26E.12.34120

Eddy County, New Mexico
Latitude 32°03'09.7", Longitude 104°14'56.7" NAD83
Land-surface elevation 3,230.90 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1978-01-25		D	62610		3217.55	NGVD29	1	Z		
1978-01-25		D	62611		3219.22	NAVD88	1	Z		
1978-01-25		D	72019	13.35			1	Z		
1992-11-18		D	62610		3218.87	NGVD29	1	S		
1992-11-18		D	62611		3220.54	NAVD88	1	S		
1992-11-18		D	72019	12.03			1	S		
1998-01-13		D	62610		3215.24	NGVD29	1	S		
1998-01-13		D	62611		3216.91	NAVD88	1	S		
1998-01-13		D	72019	15.66			1	S		
2003-01-28		D	62610		3214.44	NGVD29	1	S	USGS	
2003-01-28		D	62611		3216.11	NAVD88	1	S	USGS	
2003-01-28		D	72019	16.46			1	S	USGS	
2013-01-09	22:10 UTC	m	62610		3213.80	NGVD29	1	S	USGS	
2013-01-09	22:10 UTC	m	62611		3215.47	NAVD88	1	S	USGS	
2013-01-09	22:10 UTC	m	72019	17.10			1	S	USGS	

Date	Time	? Water-level date-time accuracy	? Parameter code		Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
2018-02-15	22:14 UTC	m	62610		3218.30	NGVD29	1	S USGS
2018-02-15	22:14 UTC	m	62611		3219.97	NAVD88	1	S USGS
2018-02-15	22:14 UTC	m	72019	12.60			1	S USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Automated retrievals
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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-06-29 12:40:17 EDT
0.29 0.25 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320244104161501

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320244104161501 26S.26E.15.24444

Eddy County, New Mexico
Latitude 32°02'44", Longitude 104°16'15" NAD27
Land-surface elevation 3,280 feet above NAVD88
The depth of the well is 53 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1983-08-24		D	62610		3246.37	NGVD29	1	Z		
1983-08-24		D	62611		3248.04	NAVD88	1	Z		
1983-08-24		D	72019	31.96			1	Z		
1987-10-08		D	62610		3248.64	NGVD29	1	Z		
1987-10-08		D	62611		3250.31	NAVD88	1	Z		
1987-10-08		D	72019	29.69			1	Z		
1992-11-18		D	62610		3246.72	NGVD29	1	S		
1992-11-18		D	62611		3248.39	NAVD88	1	S		
1992-11-18		D	72019	31.61			1	S		
1998-01-08		D	62610		3242.41	NGVD29	1	S		
1998-01-08		D	62611		3244.08	NAVD88	1	S		
1998-01-08		D	72019	35.92			1	S		

Released to Imaging: 9/23/2024 11:17:33 AM

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 01887	4	4	2	15	26S	26E	568614	3545497*

Driller License:	817	**Driller Company:**	WEST, BILLY GEORGE		
Driller Name:	GEORGE WEST				
Drill Start Date:	03/26/1980	**Drill Finish Date:**	04/27/1980	**Plug Date:**	
Log File Date:	05/09/1980	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	12 GPM
Casing Size:	6.00	**Depth Well:**	53 feet	**Depth Water:**	31 feet

Water Bearing Stratifications:	Top	Bottom	Description
	42	45	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	53

***UTM location was derived from PLSS - see Help**

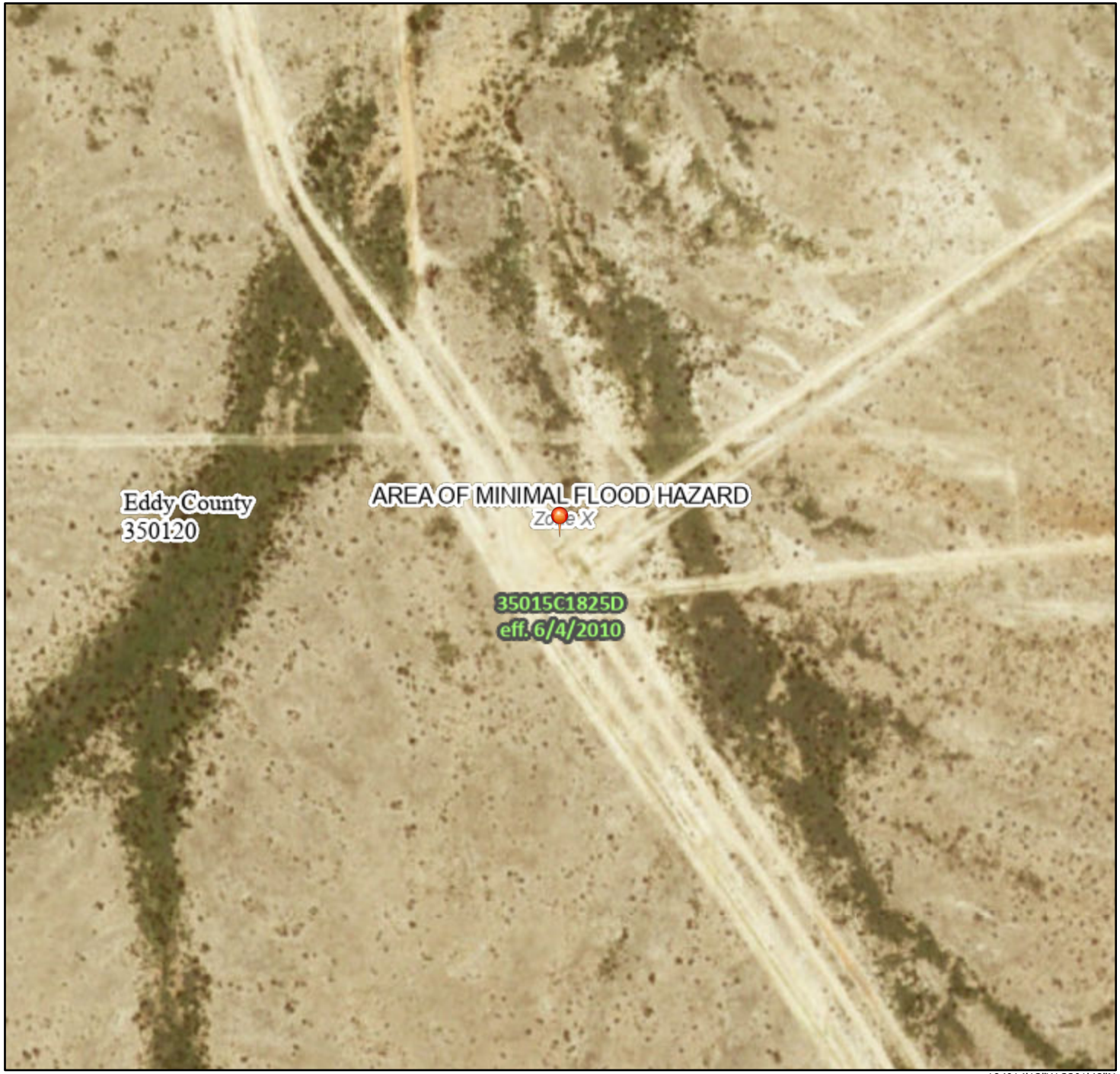
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Received by OCD: 9/5/2024 9:00:34 AM

National Flood Hazard Layer FIRMette

FEMA

104°14'50"W 32°2'19"N



104°14'12"W 32°1'48"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/11/2024 at 6:24 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released to Imaging: 9/23/2024 11:17:35 AM

Appendix C

Work Plan

CARMONA RESOURCES

SITE INFORMATION

Work Plan
Asio Otus Federal 003H (07.16.23)
Eddy County, New Mexico
Unit A Sec 24 T26S R26E
32.034391°, -104.241968°

Produced Water Release
Point of Release: Flowline Rupture Due to Corrosion
Release Date: 07.16.23
Volume Released: 13.752 Barrels of Produced Water
Volume Recovered: 0 Barrels of Produced Water

CARMONA RESOURCES

Prepared for:
Concho Operating, LLC
15 West London Road
Loving, New Mexico

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 500
Midland, Texas 79701

310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

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1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 PROPOSED WORK PLAN

6.0 RECLAMATION PLAN

7.0 CONCLUSIONS

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FIGURE 3 SAMPLE LOCATION **FIGURE 4 PROPOSED EXCAVATION**

FIGURE 5 RECLAMATION

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APPENDIX B PHOTOS

APPENDIX C INITIAL C-141 AND REMEDIATION PLAN

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS

APPENDIX F RECLAMATION CRITERIA

310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

January 11, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Work Plan
Asio Otus Federal 003H (07.16.23)
Concho Operating, LLC
Site Location: Unit A, S24, T26S, R26E
(Lat 32.034391°, Long -104.241968°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Asio Otus Federal 003H (07.16.23). The site is located at 32.034391, -104.241968 within Unit A, S24, T26S, R26E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 16, 2023, caused by a flowline rupture due to corrosion. The incident released approximately thirteen point seven five two (13.752) barrels of produced water, with zero (0) barrels recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.33 miles North of the site in S12, T26S, R26E and was drilled in 2018. The well has a reported depth to groundwater of 12.60 feet below the ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix C.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

4.0 Site Assessment Activities

Initial Assessment

On October 16, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of ten (10) sample points and six (6) horizontal samples were advanced to depths ranging from the surface to 2’ bgs inside and surrounding the release area to evaluate the vertical and

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Midland, Texas 79701
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horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

The area of S-1 was vertically delineated, but all other sample points could not be vertically delineated due to a dense geological formation ranging from 1.5' to 2.0' bgs. Refer to Table 1.

Horizontal Delineation

All horizontal sample points were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Trenching Activities

On December 5, 2023, Carmona Resources, LLC returned to the site to delineate the release vertically. A total of nine (9) trenches (T-1 through T-9) were advanced to depths ranging from the surface to 7' bgs inside the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA Method 300.0. The laboratory reports, including analytical methods, results, and chain of custody documents, are attached in Appendix E.

5.0 Proposed Work Plan

Based on the analytical data of the detected TPH and chloride concentrations, COG proposes to remediate the areas shown in Figure 4 and highlighted (blue) in Table 1.

- The areas of S-1, S-2/T-1, S-3/T-2, and S-5/T-4 will be excavated to a depth of 2.0' below ground surface and backfilled with clean material to surface grade.
- The areas of S-7/T-6 and S-8/T-7 will be excavated to a depth of 2.5'- 3.0' below ground surface and backfilled with clean material to surface grade.
- The area of S-9/T-8 will be excavated to a depth of 3.0' below the ground surface and backfilled with clean material to surface grade.
- The area of S-4/T-3 will be excavated to a depth of 4.0' below the ground surface and backfilled with clean material to surface grade.
- The area of S-6/T-5 will be excavated to a depth of 5.0' below the ground surface and backfilled with clean material to surface grade.
- The area of S-10/T-9 will be excavated to a depth of 6.0' below the ground surface and backfilled with clean material to surface grade.
- An estimated 1,765 cubic yards will be removed and hauled to the nearest disposal based on the maximum depth.

- A variance is requested per 19.15.29.14. A NMAC, Five-point composite bottom floor hole, and sidewall samples will be collected every 500 square feet to represent the release area.

- Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The remediation will be implemented 90 days after the work plan is approved.

- Impacted soil around oil and gas equipment, structures, or surface or buried lines may not be removed during remediation activities due to safety concerns for the onsite personnel. However, COG will excavate the impacted soil to the maximum extent possible.

6.0 Reclamation Plan

Once the remediation activities are completed, the excavated areas will be backfilled with clean material to surface grade. The appropriate pounds of pure live seed per acre will be used. The seed mixture that will be used is BLM Seed Mixture #1, (See attachments in Appendix F).

7.0 Conclusions

Upon completion, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

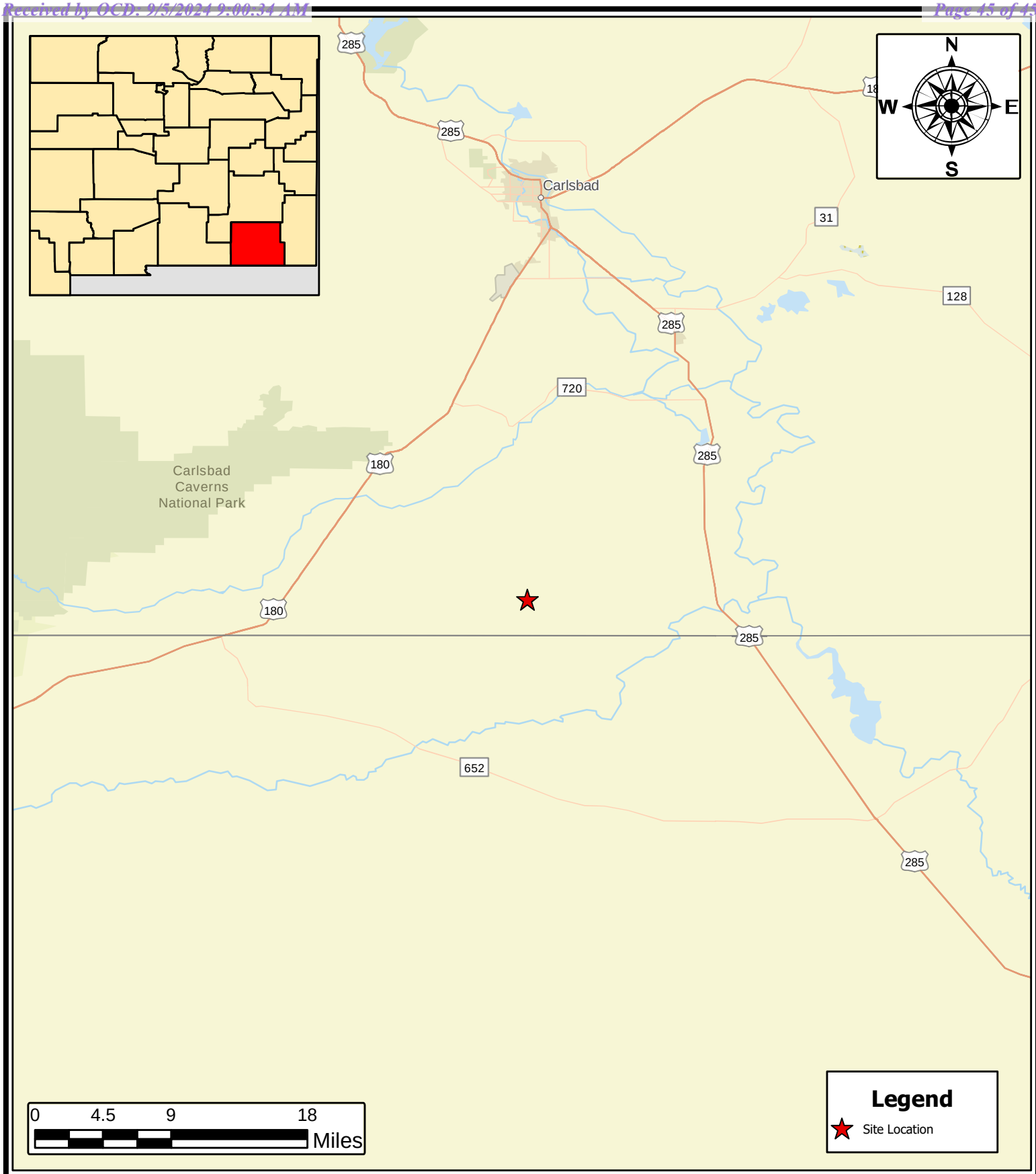
Sincerely,
Carmona Resources, LLC

Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



OVERVIEW MAP
COG OPERATING
ASIO OTUS FED 003H (7.16.23)
EDDY COUNTY, NEW MEXICO
32.034391, -104.241968

SCALE: As Shown

Date: 7/27/2023

CARMONA RESOURCES

Carmona Resources
310 West Wall Street, Suite 500
Midland, Texas 79701

NOTES:

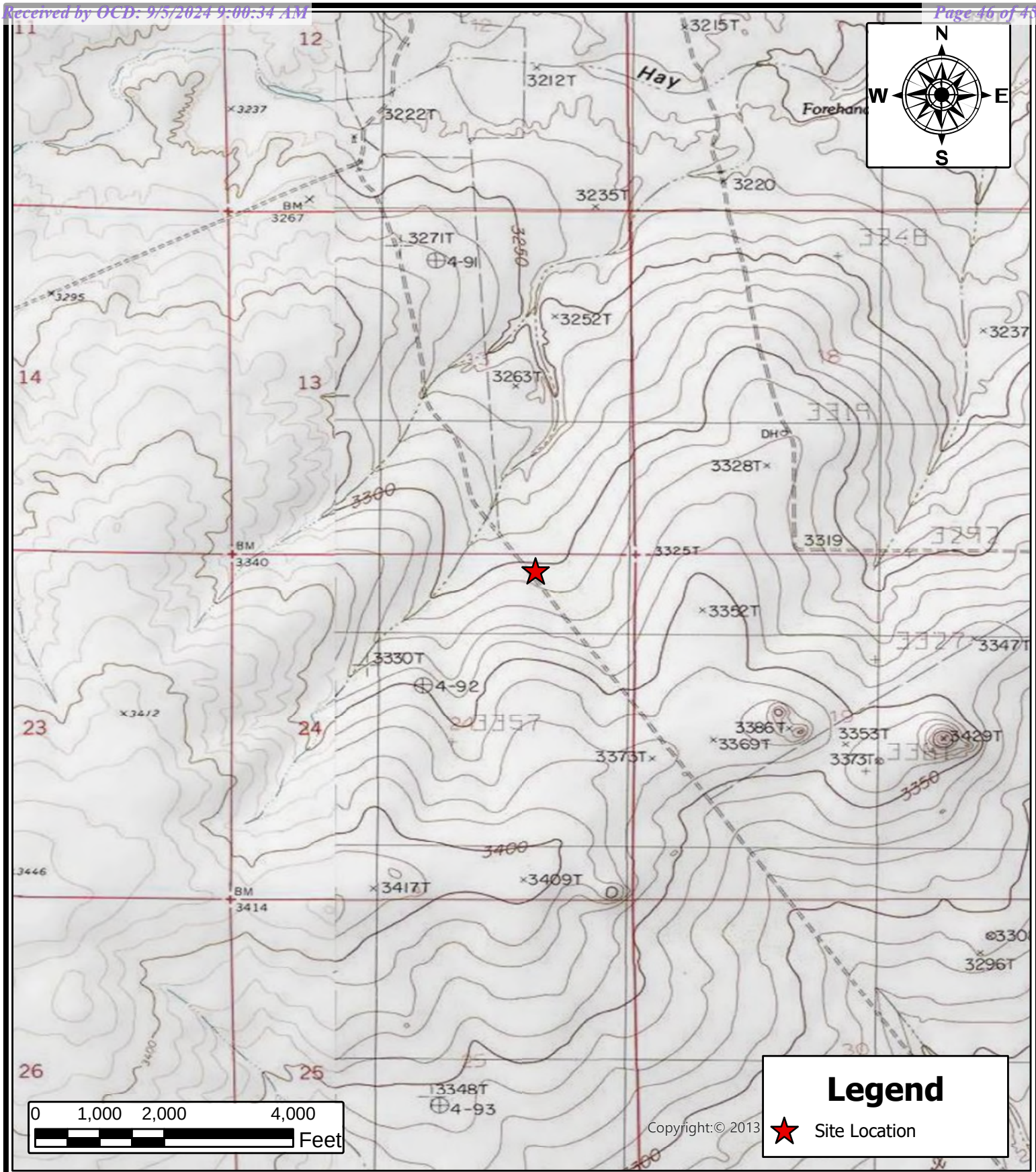
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1



TOPOGRAPHIC MAP COG OPERATING
ASIO OTUS FED 003H (7.16.23)
EDDY COUNTY, NEW MEXICO
32.034391, -104.241968

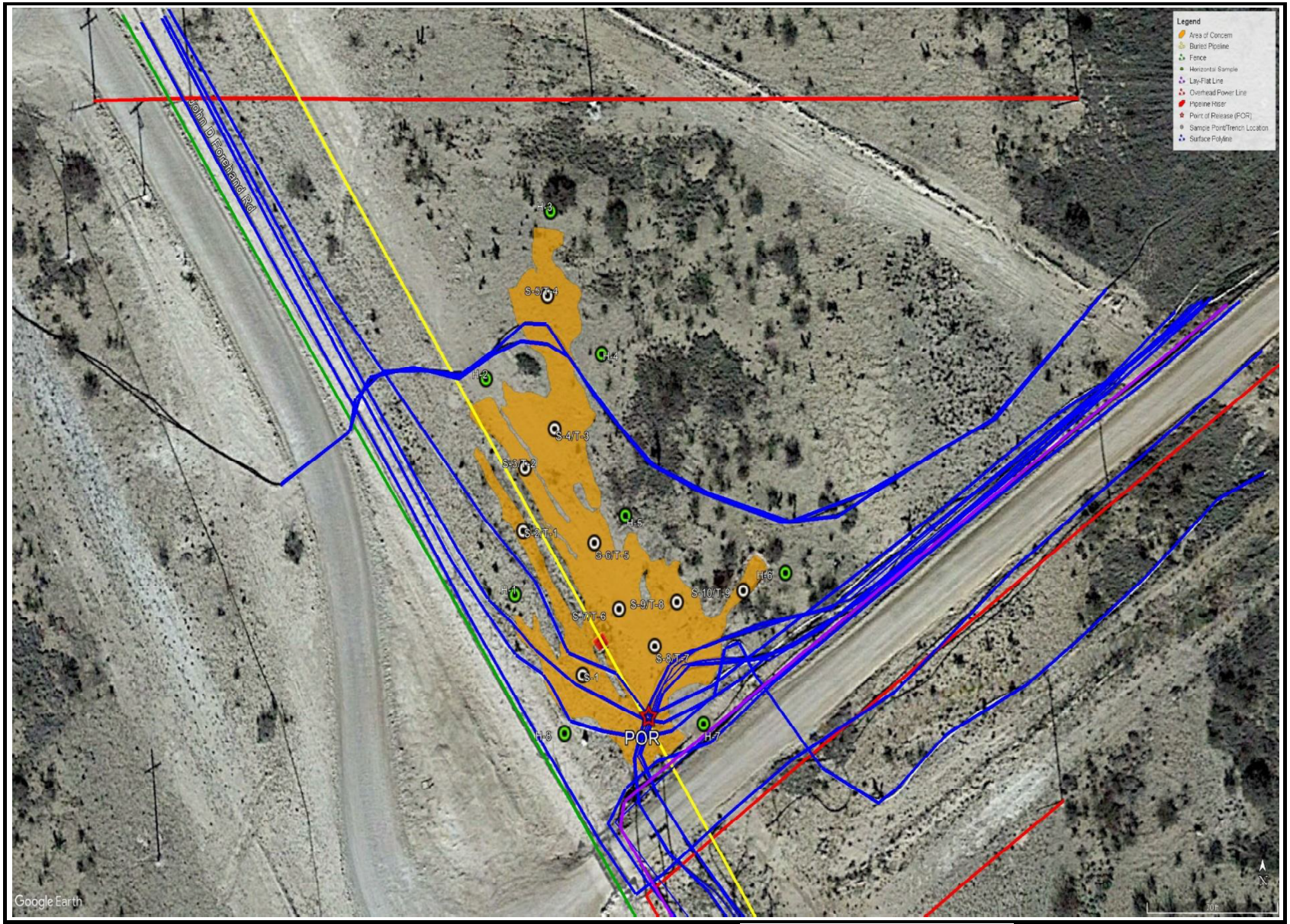
SCALE: As Shown | Date: 7/27/2023

CARMONA RESOURCES

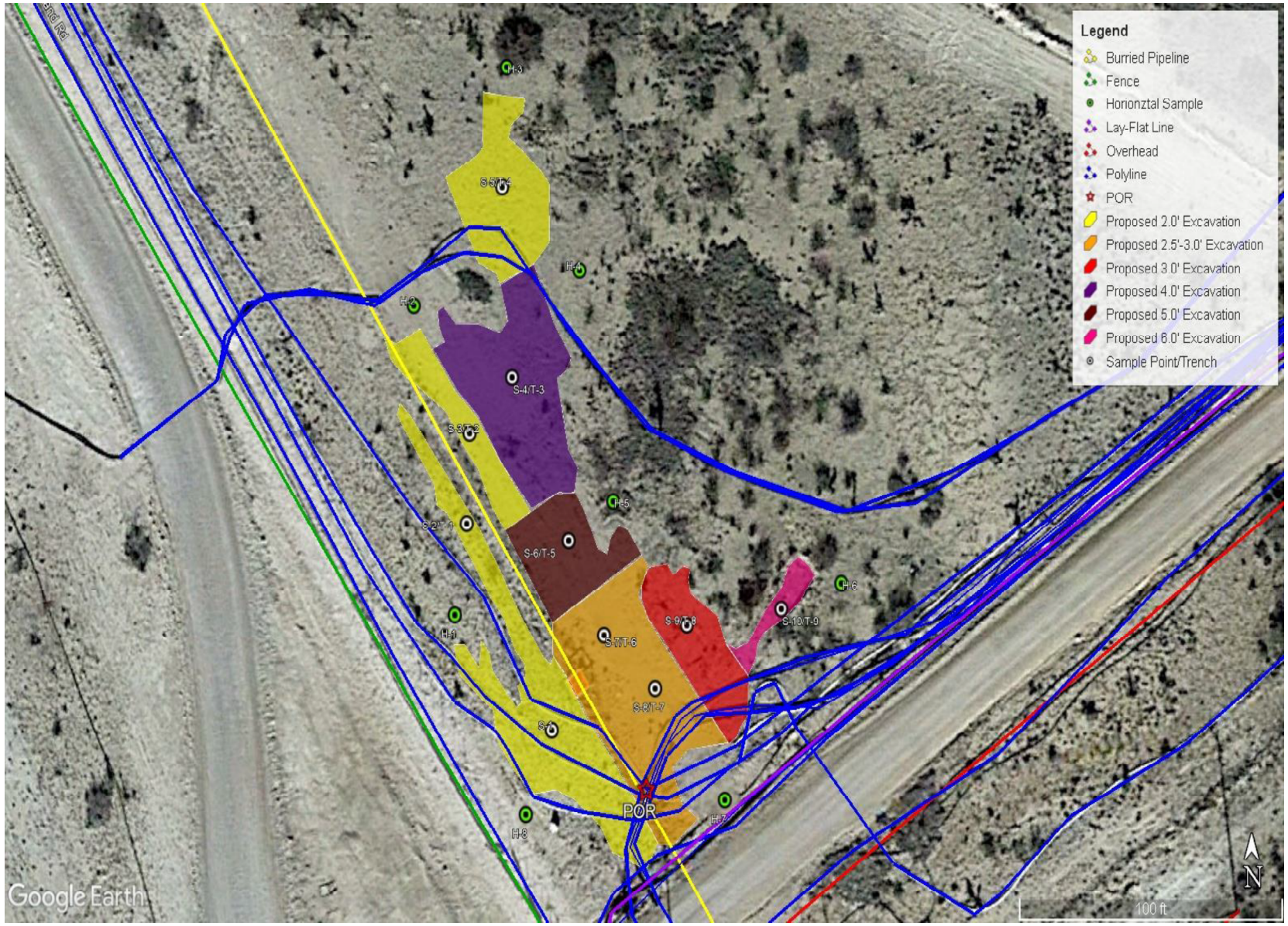
Carmona Resources
310 West Wall Street, Suite 500
Midland, Texas 79701

NOTES:
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

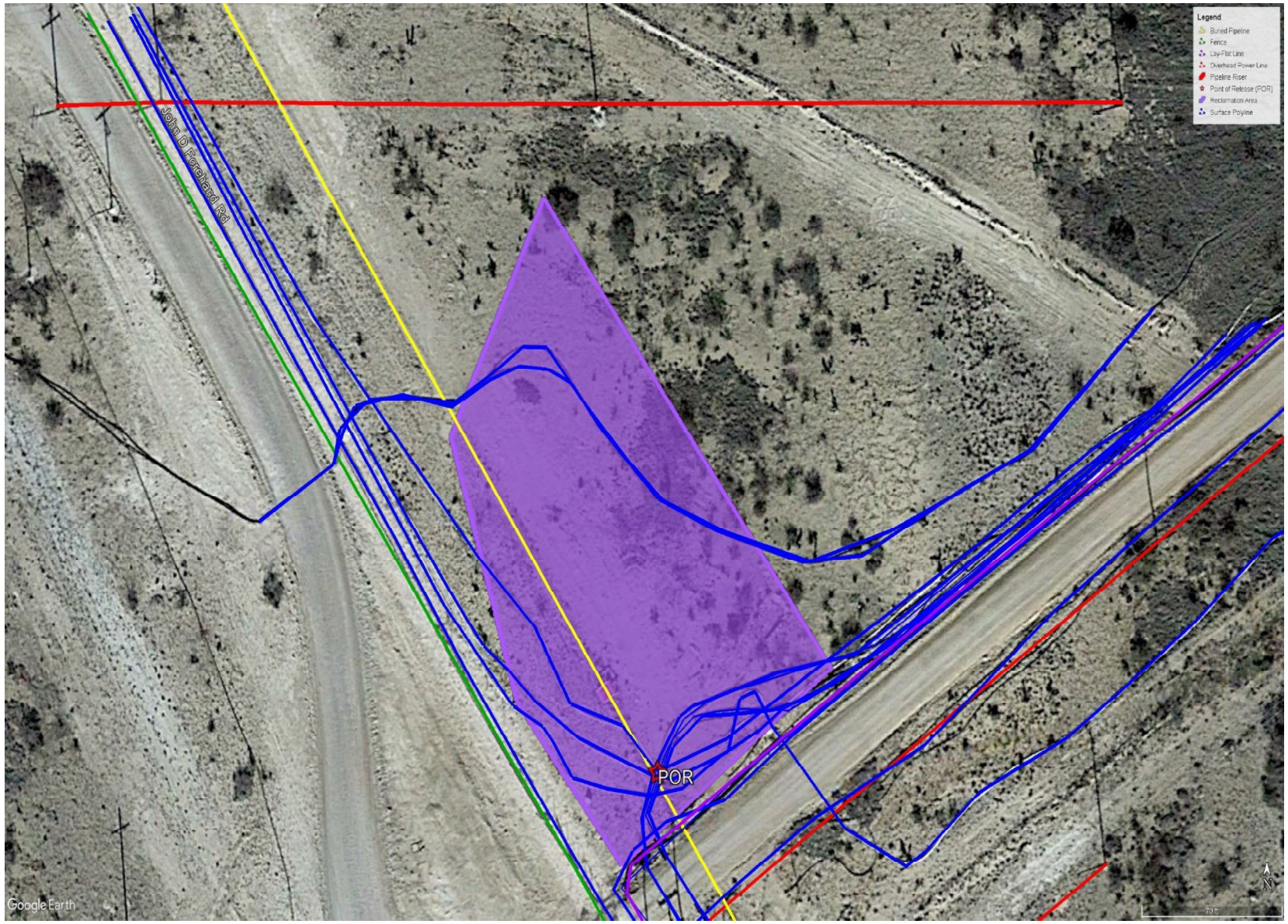
DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1



SAMPLE LOCATION MAP COG OPERATING, LLC ASIO OTUS FEDERAL 003H (07.16.23) EDDY COUNTY, NEW MEXICO 32.034391°, -104.241968°	CARMONA RESOURCES	FIGURE 3



EXCAVATION MAP COG OPERATING, LLC ASIO OTUS FEDERAL 003H (07.16.23) EDDY COUNTY, NEW MEXICO 32.034391°, -104.241968°	CARMONA RESOURCES	FIGURE 4



RECLAMATION MAP COG OPERATING, LLC ASIO OTUS FEDERAL 003H (07.16.23) EDDY COUNTY, NEW MEXICO 32.034391°, -104.241968°	CARMONA RESOURCES	FIGURE 5

APPENDIX A

CARMONA RESOURCES

Table 1
COG Operating
Asio Otus Federal 003H (07.16.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	10/16/2023	0-1	<49.5	**130**	<49.5	**130**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**1,6700**
	"	1.5	<50.5	61.1	<50.5	61.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**6,910**
	"	2	<50.1	58.2	<50.1	58.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	63.1
S-2	10/16/2023	0-1	<49.9	**122**	<49.9	**122**	<0.00201	<0.00201	<0.00201	<0.00403	<0.00403	**1,6200**
	"	1.5	<50.0	53.9	<50.0	53.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**8,160**
T-1	12/5/2023	0-1	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	280
	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	425
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	525
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	406
S-3	10/16/2023	0-1	<49.6	**169**	<49.6	**169**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**13,700**
	"	1.5	<50.3	55.8	<50.3	55.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**7,770**
T-2	12/5/2023	0-1	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	277
	"	1.5	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	425
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	545
	"	3.0	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	399
S-4	10/16/2023	0-1	<50.1	**192**	<50.1	**192**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**16,800**
	"	1.5	<50.5	59.6	<50.5	59.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**5,400**
T-3	12/5/2023	0-1	<50.3	51.5	<50.3	51.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**37,500**
	"	1.5	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**7,760**
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**5,030**
	"	3.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**796**
	"	4.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	159
S-5	10/16/2023	0-1	<49.7	**221**	<49.7	**221**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**16,700**
	"	1.5	<50.0	53.7	<50.0	53.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**8,180**
T-4	12/5/2023	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**2210**
	"	1.5	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	332
	"	2.0	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	81.3
	"	3.0	<50.3	<50.3	<50.3	<50.3	**<0.00199**	<0.00199	<0.00199	<0.00398	<0.00398	131
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet
(S) Sample Points
(T) Trench Location
Proposed Excavation

Table 1
COG Operating
Asio Otus Federal 003H (07.16.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-6	10/16/2023	0-1	<50.3	**378**	<50.3	**378**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**14,800**
	"	1.5	<50.4	74.3	<50.4	74.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**6,760**
	"	2	<50.5	**117**	<50.5	**117**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**15,000**
T-5	12/5/2023	0-1	<50.1	85.0	<50.1	85.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**20,800**
	"	1.5	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**9,720**
	"	2.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**11,800**
	"	3.0	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**9,180**
	"	4.0	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**2,120**
	"	5.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	282
S-7	10/16/2023	0-1	<49.7	**180**	<49.7	**180**	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**16,700**
	"	1.5	<49.7	57.5	<49.7	57.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**7,530**
	"	2	<49.6	**112**	<49.6	**112**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**15,300**
T-6	12/5/2023	0-1	<49.7	57.4	<49.7	57.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**5,600**
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**2,800**
	"	2.0	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	547
	"	3.0	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	22.5
	"	4.0	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	291
S-8	10/16/2023	0-1	<49.5	**158**	<49.5	**158**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**14,000**
	"	1.5	<49.5	55.0	<49.5	55.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**7,750**
	"	2	<50.4	**150**	<50.4	**150**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**20,400**
T-7	12/5/2023	0-1	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	80.9
	"	1.5	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	126
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	136
	"	3.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	26.5
S-9	10/16/2023	0-1	<50.3	**233**	<50.3	**233**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**17,200**
	"	1.5	<49.9	50.5	<49.9	50.5	<0.00249	<0.00249	<0.00249	<0.00499	<0.00499	**8,020**
	"	2	<50.5	**208**	<50.5	**208**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**20,700**
T-8	12/5/2023	0-1	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**5,230**
	"	1.5	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**4,120**
	"	2.0	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**622**
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	35.9
S-10	10/16/2023	0-1	<50.0	**251**	<50.0	**251**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**13,800**
	"	1.5	<50.5	60.8	<50.5	60.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**9,100**
	"	2	<50.0	**155**	**<50.0**	155	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**19,600**
T-9	12/5/2023	0-1	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**10,900**
	"	1.5	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**4,460**
	"	2.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**6,260**
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**9,300**
	"	4.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**8,840**
	"	5.0	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**664**
	"	6.0	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	86.7
	"	7.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8.09
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet
(S) Sample Points
(T) Trench Location
Proposed Excavation

Table 1
COG Operating
Asio Otus Federal 003H (07.16.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	10/16/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	57.2
H-2	10/16/2023	0-0.5	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	40.0
H-3	10/16/2023	0-0.5	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	43.2
H-4	10/16/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	345
H-5	10/16/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	42.4
H-6	10/16/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	38.8
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed

[A] – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(H) Horizontals

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

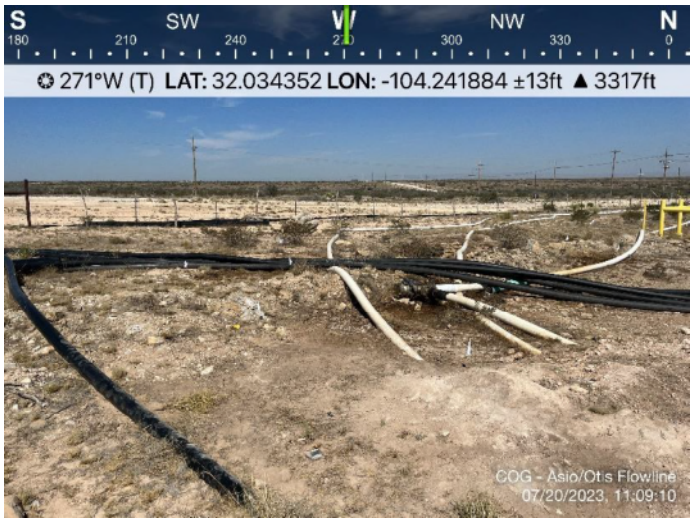
Concho Operating, LLC

Photograph No. 1

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View West of Point of Release (POR)



Photograph No. 2

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View West of Point of Release (POR)

Photograph No. 3

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View Northwest, area of S-1.

PHOTOGRAPHIC LOG

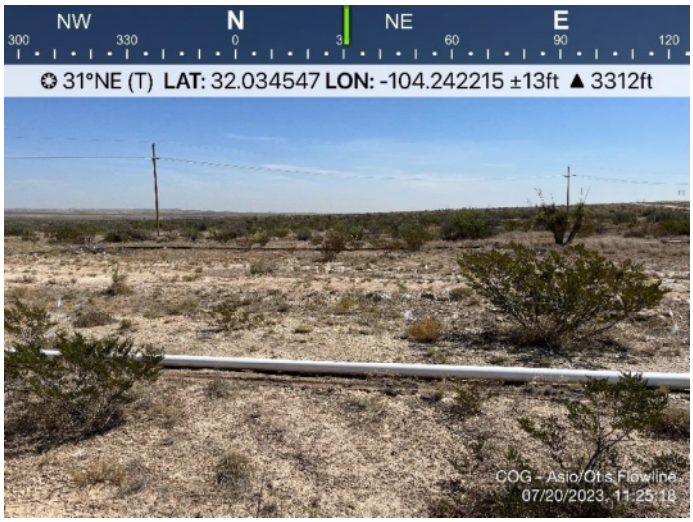
Concho Operating, LLC

Photograph No. 4

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View Northeast, area of S-2/T-1.



Photograph No. 5

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

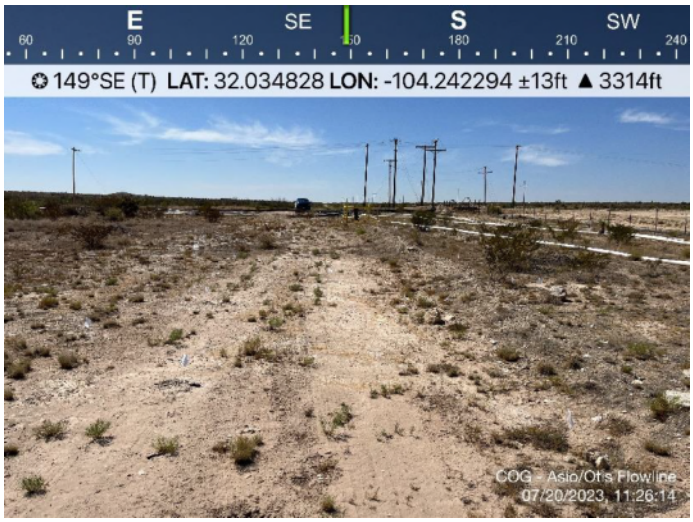
Description:
View Southeast, area of S-3/T-2.

Photograph No. 6

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View Southeast, area of S-4/T-3.



PHOTOGRAPHIC LOG

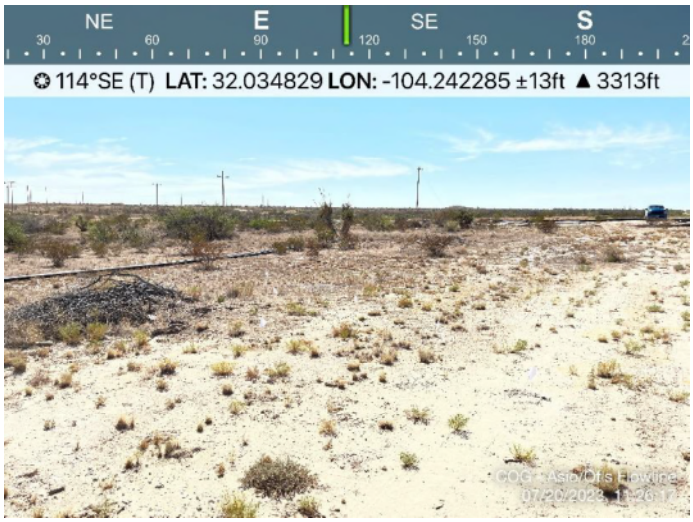
Concho Operating, LLC

Photograph No. 7

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View Southeast, area of S-4/T-3.



Photograph No. 8

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View South, area of S-5/T-4.

Photograph No. 9

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View Southwest, area of S-5/T-4.

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 10

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View West, area of S-6/T-5.

Photograph No. 11

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

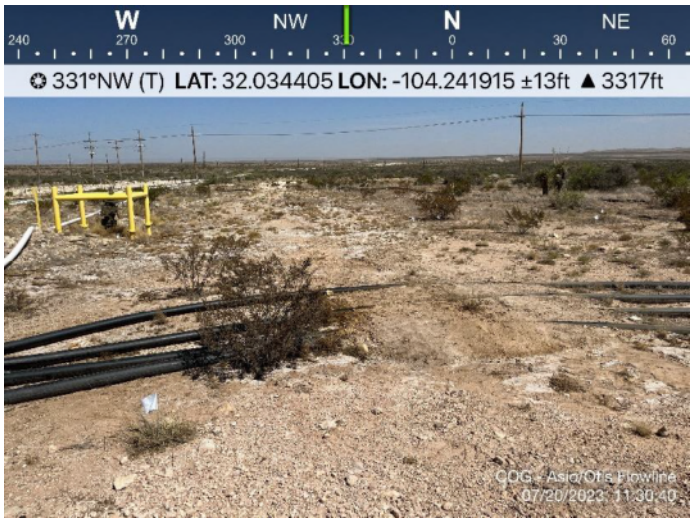
Description:
View Southeast, area of S-7/T-6.

Photograph No. 12

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View Northwest, area of S-8/T-7.



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 13

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

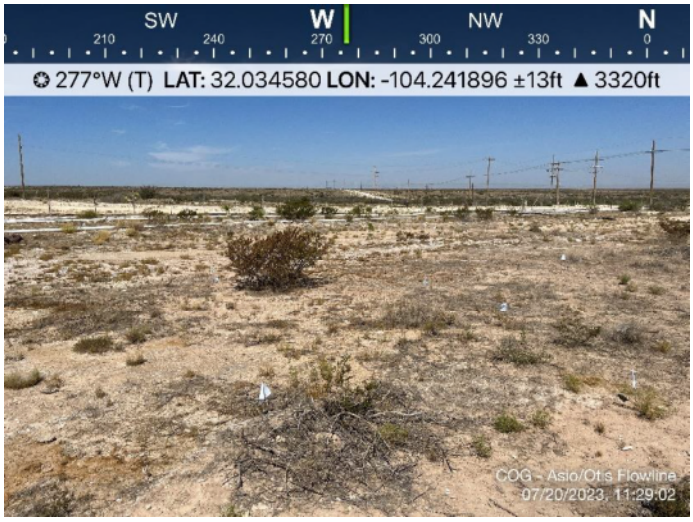
Description:
View Southwest, area of S-8/T-7 and S-9/T-8.

Photograph No. 14

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View West, area of S-9/T-8.



Photograph No. 15

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View West, area of S-9/T-8.

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 16

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View North, area of S-9/T-8.

Photograph No. 17

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

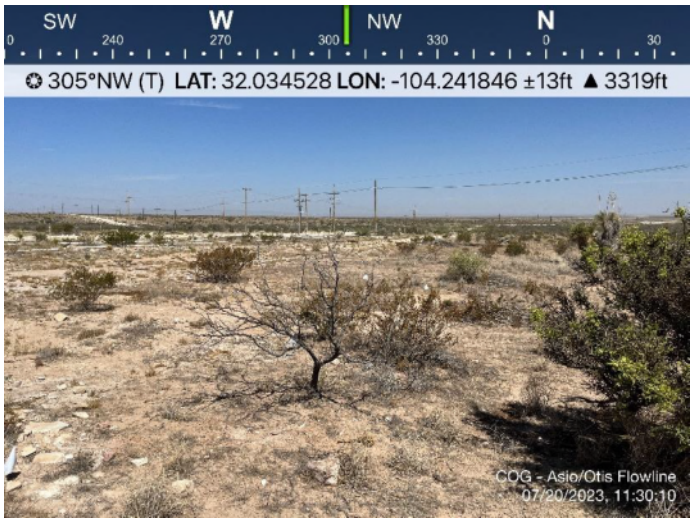
Description:
View Northeast, area of S-10/T-9.

Photograph No. 18

Facility: Asio Otus Federal 003H (07.16.23)

County: Eddy County, New Mexico

Description:
View Northwest, area of S-10/T-9.



APPENDIX C

CARMONA RESOURCES

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2320851728
District RP	
Facility ID	fAPP2202647776
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jacqui Harris	Contact Telephone	(575) 496-0780
Contact email	Jacqui.Harris@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2320851728
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.0344 Longitude -104.2419
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Asio Otus Federal 003H	Site Type	Flowline
Date Release Discovered	July 16, 2023	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
A	24	26S	26E	Eddy

Surface Owner: ☐ State ■ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
■ Produced Water	Volume Released (bbls) 13.752	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a flowline rupture due to corrosion.
The release was off the pad.
Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2320851728
District RP	
Facility ID	fAPP2202647776
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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.
- ■ The impacted area has been secured to protect human health and the environment.
- ■ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Printed Name: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 7/27/2023

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: _____ Date: _____

Spill Calculation - Subsurface Spill - Rectangle									Remediation Recommendation	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	[redacted]	Total Estimated Contaminated Soil, uncompacted, 25% (yd^3.)	Current Rule of Thumb - RMR Handover Volume, (yd^3.)
Rectangle A	250.0	50.0	0.5	Off-Pad	14.60%	92.71	13.54		24.11	
Rectangle B	20.0	10.0	0.5	Off-Pad	14.60%	1.48	0.22		0.39	
Rectangle C				Off-Pad	14.60%	0.00	0.00		0.00	
Rectangle D				Off-Pad	14.60%	0.00	0.00		0.00	
Rectangle E				Off-Pad	14.60%	0.00	0.00		0.00	
Rectangle F						0.00			0.00	750
Rectangle G						0.00			0.00	
Rectangle H						0.00			0.00	
Rectangle I						0.00			0.00	
Rectangle J						0.00			0.00	
						Total Subsurface Volume Released:	13.7520		24.50	BU

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2320851728
District RP	
Facility ID	fAPP2202647776
Application ID	

Site Assessment/Characterization

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?	12.60 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☑ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☑ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☑ Data table of soil contaminant concentration data
- ☑ Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☑ Photographs including date and GIS information
- ☑ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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State of New Mexico
Oil Conservation Division

Incident ID	NAPP2320851728
District RP	
Facility ID	fAPP2202647776
Application ID	

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.

Printed Name: Jacqui Harris Title: Sr. Environmental Engineer

Signature: Jacqui Harris Date: 2.16.24

email: jacqui.harris@conocophillips.com Telephone: 575-496-0780

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2320851728
District RP	
Facility ID	fAPP2202647776
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☑ Detailed description of proposed remediation technique
- ☑ Scaled sitemap with GPS coordinates showing delineation points
- ☑ Estimated volume of material to be remediated
- ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Jacqui Harris Title: Sr. Environmental Engineer

Signature: Jacqui Harris Date: 2.16.24

email: jacqui.harris@conocophillips.com Telephone: 575-496-0780

OCD Only

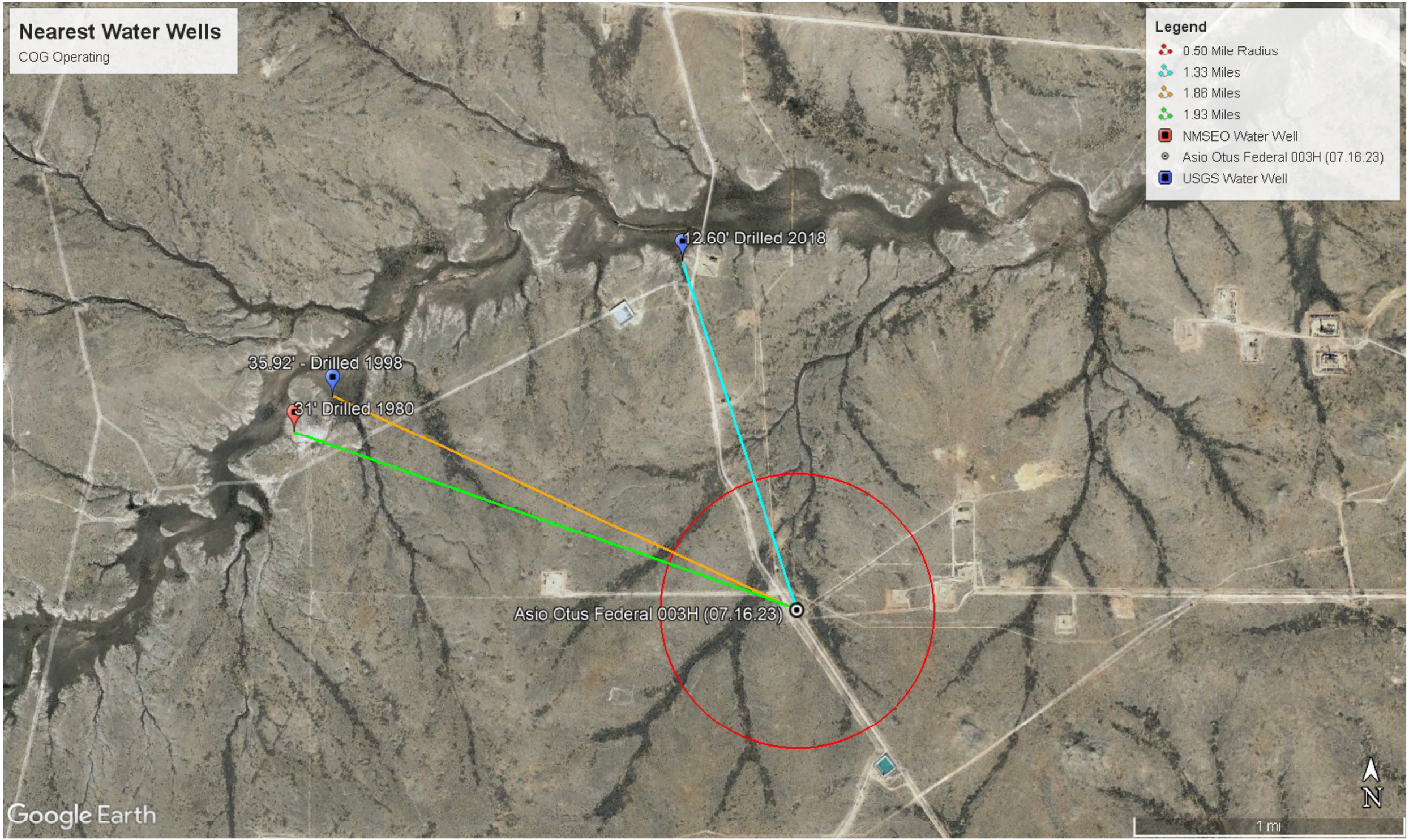
Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX D

CARMONA RESOURCES


Nearest Water Wells
COG Operating
Legend
0.50 Mile Radius
1.33 Miles
1.86 Miles
1.93 Miles
NMSEO Water Well
Asio Otus Federal 003H (07.16.23)
USGS Water Well
12.60' Drilled 2018
35.92' - Drilled 1998
31' Drilled 1980
Asio Otus Federal 003H (07.16.23)
Google Earth
1 mi
N

High Karst
COG Operating
Legend
Asio Otus Federal 003H (07.16.23)
High
Asio Otus Federal 003H (07.16.23)
Google Earth
N
4000 ft

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04269 POD1	CUB	ED	4	2	3	18	26S	27E	572620	3545176	1303	105		
C 02438	CUB	ED	4	2	3	12	26S	26E	571015	3546705*	1996	30		
C 02218	CUB	ED	4	1	4	07	26S	27E	573039	3546725*	2577	35		
C 01887	C	ED	4	4	2	15	26S	26E	568614	3545497*	2876	53	31	22
C 02439	CUB	ED	2	4	2	15	26S	26E	568614	3545697*	2935	30		

Average Depth to Water: **31 feet**

Minimum Depth: **31 feet**

Maximum Depth: **31 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 571390 **Northing (Y):** 3544744 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S

Groundwater | New Mexico | GO

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- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320320104145101

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320320104145101 26S.26E.12.34120

Eddy County, New Mexico
Latitude 32°03'09.7", Longitude 104°14'56.7" NAD83
Land-surface elevation 3,230.90 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1978-01-25		D	62610		3217.55	NGVD29	1	Z		
1978-01-25		D	62611		3219.22	NAVD88	1	Z		
1978-01-25		D	72019	13.35			1	Z		
1992-11-18		D	62610		3218.87	NGVD29	1	S		
1992-11-18		D	62611		3220.54	NAVD88	1	S		
1992-11-18		D	72019	12.03			1	S		
1998-01-13		D	62610		3215.24	NGVD29	1	S		
1998-01-13		D	62611		3216.91	NAVD88	1	S		
1998-01-13		D	72019	15.66			1	S		
2003-01-28		D	62610		3214.44	NGVD29	1	S	USGS	
2003-01-28		D	62611		3216.11	NAVD88	1	S	USGS	
2003-01-28		D	72019	16.46			1	S	USGS	
2013-01-09	22:10 UTC	m	62610		3213.80	NGVD29	1	S	USGS	
2013-01-09	22:10 UTC	m	62611		3215.47	NAVD88	1	S	USGS	
2013-01-09	22:10 UTC	m	72019	17.10			1	S	USGS	

Date	Time	? Water-level date-time accuracy	? Parameter code		Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S	
2018-02-15	22:14 UTC	m	62610		3218.30	NGVD29	1	S	USGS
2018-02-15	22:14 UTC	m	62611		3219.97	NAVD88	1	S	USGS
2018-02-15	22:14 UTC	m	72019	12.60			1	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-06-29 12:40:17 EDT
0.29 0.25 nadww01

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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320244104161501

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320244104161501 26S.26E.15.24444

Eddy County, New Mexico
Latitude 32°02'44", Longitude 104°16'15" NAD27
Land-surface elevation 3,280 feet above NAVD88
The depth of the well is 53 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1983-08-24		D	62610		3246.37	NGVD29	1	Z		
1983-08-24		D	62611		3248.04	NAVD88	1	Z		
1983-08-24		D	72019	31.96			1	Z		
1987-10-08		D	62610		3248.64	NGVD29	1	Z		
1987-10-08		D	62611		3250.31	NAVD88	1	Z		
1987-10-08		D	72019	29.69			1	Z		
1992-11-18		D	62610		3246.72	NGVD29	1	S		
1992-11-18		D	62611		3248.39	NAVD88	1	S		
1992-11-18		D	72019	31.61			1	S		
1998-01-08		D	62610		3242.41	NGVD29	1	S		
1998-01-08		D	62611		3244.08	NAVD88	1	S		
1998-01-08		D	72019	35.92			1	S		

Received by OCD: 9/5/2024 9:00:34 AM

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-06-29 12:41:15 EDT
0.28 0.24 nadww01

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New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 01887	4	4	2	15	26S	26E	568614	3545497*

Driller License:	817	**Driller Company:**	WEST, BILLY GEORGE		
Driller Name:	GEORGE WEST				
Drill Start Date:	03/26/1980	**Drill Finish Date:**	04/27/1980	**Plug Date:**	
Log File Date:	05/09/1980	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	12 GPM
Casing Size:	6.00	**Depth Well:**	53 feet	**Depth Water:**	31 feet

Water Bearing Stratifications:	Top	Bottom	Description
	42	45	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	53

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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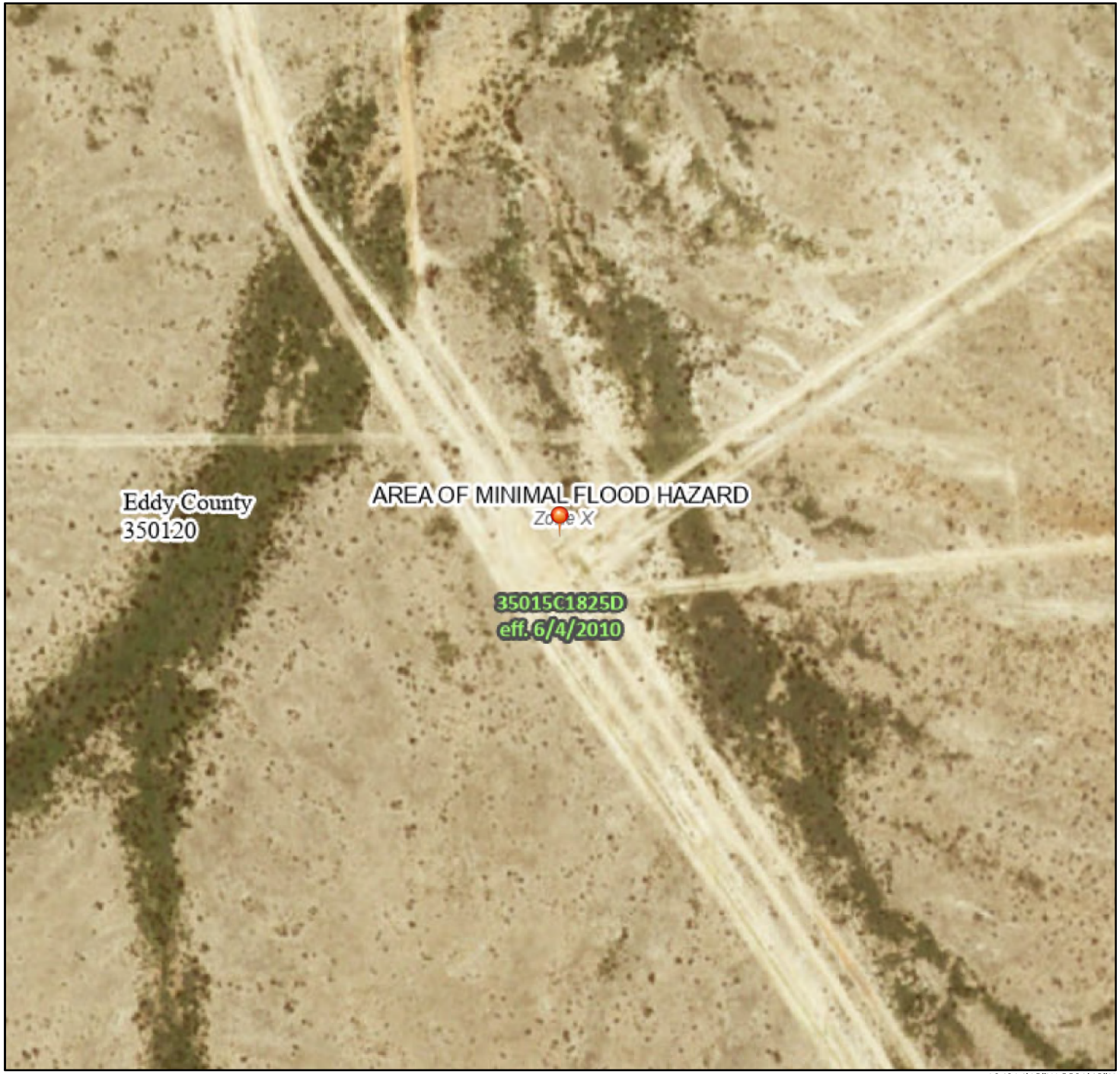
National Flood Hazard Layer FIRMette

FEMA

104°14'50"W 32°2'19"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°14'12"W 32°1'48"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/11/2024 at 6:24 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Carmona
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/25/2023 10:46:30 AM

JOB DESCRIPTION

Asio Flowline
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-34717-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

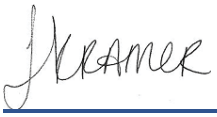
Eurofins Midland

Job Notes

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

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

Authorization



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

Client: Carmona Resources
Project/Site: Asio Flowline

Laboratory Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Job ID: 880-34717-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-34717-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt
The samples were received on 10/20/2023 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-34717-1), S-1 (1.5') (880-34717-2), S-1 (2') (880-34717-3), S-2 (0-1') (880-34717-4), S-2 (1.5') (880-34717-5), S-3 (0-1') (880-34717-6), S-3 (1.5') (880-34717-7), S-4 (0-1') (880-34717-8), S-4 (1.5') (880-34717-9), S-5 (0-1') (880-34717-10), S-5 (1.5') (880-34717-11), S-6 (0-1') (880-34717-12), S-6 (1.5') (880-34717-13), S-6 (2') (880-34717-14), S-7 (0-1') (880-34717-15), S-7 (1.5') (880-34717-16), S-7 (2') (880-34717-17), S-8 (0-1') (880-34717-18), S-8 (1.5') (880-34717-19), S-8 (2') (880-34717-20), S-9 (0-1') (880-34717-21), S-9 (1.5') (880-34717-22), S-9 (2') (880-34717-23), S-10 (0-1') (880-34717-24), S-10 (1.5') (880-34717-25) and S-10 (2') (880-34717-26).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-65159 and 880-65235 and analytical batch 880-65138 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-34717-1), S-1 (1.5') (880-34717-2), S-1 (2') (880-34717-3), S-2 (0-1') (880-34717-4), S-3 (1.5') (880-34717-7), S-4 (0-1') (880-34717-8), S-4 (1.5') (880-34717-9), S-6 (0-1') (880-34717-12), S-7 (0-1') (880-34717-15), S-7 (1.5') (880-34717-16) and S-8 (1.5') (880-34717-19). 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: (LCS 880-65234/1-A) and (LCSD 880-65234/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-34717-A-1-A MS) and (880-34717-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-65136 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-65136/35).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65277 and 880-65280 and analytical batch 880-65285 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65277 and analytical batch 880-65285 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference

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Case Narrative

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Job ID: 880-34717-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-65081 and analytical batch 880-65261 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-1')

Lab Sample ID: 880-34717-1
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:51	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:51	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:51	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		10/20/23 14:23	10/20/23 22:51	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:51	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		10/20/23 14:23	10/20/23 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/20/23 14:23*	*10/20/23 22:51*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/20/23 22:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/20/23 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**130**		49.5		mg/Kg			10/22/23 11:12	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	<49.5	U	49.5		mg/Kg		10/21/23 16:14	10/22/23 11:12	1
Diesel Range Organics (Over C10-C28)	**130**	**F1**	49.5		mg/Kg		10/21/23 16:14	10/22/23 11:12	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		10/21/23 16:14	10/22/23 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/21/23 16:14*	*10/22/23 11:12*	*1*
o-Terphenyl	*114*		*70 - 130*	*10/21/23 16:14*	*10/22/23 11:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16700**		251		mg/Kg			10/24/23 06:01	50

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34717-2
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/20/23 23:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/20/23 23:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/20/23 23:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/20/23 23:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/20/23 23:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/20/23 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*10/20/23 14:23*	*10/20/23 23:11*	*1*
1,4-Difluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/20/23 23:11*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/20/23 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**61.1**		50.5		mg/Kg			10/22/23 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/21/23 16:14	10/22/23 12:18	1
Diesel Range Organics (Over C10-C28)	**61.1**		50.5		mg/Kg		10/21/23 16:14	10/22/23 12:18	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/21/23 16:14	10/22/23 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*10/21/23 16:14*	*10/22/23 12:18*	*1*
o-Terphenyl	*96*		*70 - 130*	*10/21/23 16:14*	*10/22/23 12:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6910**		101		mg/Kg			10/24/23 06:07	20

Client Sample ID: S-1 (2')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 23:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 23:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 23:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/20/23 14:23	10/20/23 23:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 23:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/20/23 14:23	10/20/23 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*10/20/23 14:23*	*10/20/23 23:31*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*10/20/23 14:23*	*10/20/23 23:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/20/23 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**58.2**		50.1		mg/Kg			10/22/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/21/23 16:14	10/22/23 12:40	1
Diesel Range Organics (Over C10-C28)	**58.2**		50.1		mg/Kg		10/21/23 16:14	10/22/23 12:40	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/21/23 16:14	10/22/23 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*10/21/23 16:14*	*10/22/23 12:40*	*1*
o-Terphenyl	*81*		*70 - 130*	*10/21/23 16:14*	*10/22/23 12:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.1**		4.97		mg/Kg			10/24/23 12:52	1

Client Sample ID: S-2 (0-1')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/20/23 23:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/20/23 23:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/20/23 23:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/20/23 14:23	10/20/23 23:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/20/23 23:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/20/23 14:23	10/20/23 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*10/20/23 14:23*	*10/20/23 23:52*	*1*
1,4-Difluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/20/23 23:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/20/23 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	**122**		49.9		mg/Kg			10/22/23 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/21/23 16:14	10/22/23 13:02	1
Diesel Range Organics (Over C10-C28)	**122**		49.9		mg/Kg		10/21/23 16:14	10/22/23 13:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/21/23 16:14	10/22/23 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*10/21/23 16:14*	*10/22/23 13:02*	*1*
o-Terphenyl	*96*		*70 - 130*	*10/21/23 16:14*	*10/22/23 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16200**		252		mg/Kg			10/24/23 06:34	50

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/20/23 14:23	10/21/23 00:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/20/23 14:23	10/21/23 00:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/20/23 14:23	10/21/23 00:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/20/23 14:23	10/21/23 00:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/20/23 14:23	10/21/23 00:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/20/23 14:23	10/21/23 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*10/20/23 14:23*	*10/21/23 00:12*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*10/20/23 14:23*	*10/21/23 00:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/21/23 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	**53.9**		50.0		mg/Kg			10/22/23 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:14	10/22/23 13:25	1
Diesel Range Organics (Over C10-C28)	**53.9**		50.0		mg/Kg		10/21/23 16:14	10/22/23 13:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:14	10/22/23 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*10/21/23 16:14*	*10/22/23 13:25*	*1*
o-Terphenyl	*97*		*70 - 130*	*10/21/23 16:14*	*10/22/23 13:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8160**		100		mg/Kg			10/24/23 06:41	20

Client Sample ID: S-3 (0-1')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-6
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		10/20/23 14:23	10/21/23 00:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 00:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 00:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 00:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 00:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*10/20/23 14:23*	*10/21/23 00:33*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*10/20/23 14:23*	*10/21/23 00:33*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (0-1')

Lab Sample ID: 880-34717-6
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/21/23 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	**169**		49.6		mg/Kg			10/22/23 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/21/23 16:14	10/22/23 13:47	1
Diesel Range Organics (Over C10-C28)	**169**		49.6		mg/Kg		10/21/23 16:14	10/22/23 13:47	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/21/23 16:14	10/22/23 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*10/21/23 16:14*	*10/22/23 13:47*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/21/23 16:14*	*10/22/23 13:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13700**		99.4		mg/Kg			10/24/23 06:47	20

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-34717-7
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 00:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 00:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 00:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 00:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 00:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*10/20/23 14:23*	*10/21/23 00:53*	*1*
1,4-Difluorobenzene (Surr)	*54*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/21/23 00:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/21/23 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	**55.8**		50.3		mg/Kg			10/22/23 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/21/23 16:14	10/22/23 14:09	1
Diesel Range Organics (Over C10-C28)	**55.8**		50.3		mg/Kg		10/21/23 16:14	10/22/23 14:09	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-34717-7
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/21/23 16:14	10/22/23 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/21/23 16:14*	*10/22/23 14:09*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/21/23 16:14*	*10/22/23 14:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7770**		101		mg/Kg			10/24/23 06:54	20

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-34717-8
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 01:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 01:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 01:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/20/23 14:23	10/21/23 01:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 01:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/20/23 14:23	10/21/23 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*10/20/23 14:23*	*10/21/23 01:14*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/21/23 01:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/21/23 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	**192**		50.1		mg/Kg			10/22/23 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/21/23 16:14	10/22/23 14:32	1
Diesel Range Organics (Over C10-C28)	**192**		50.1		mg/Kg		10/21/23 16:14	10/22/23 14:32	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/21/23 16:14	10/22/23 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*10/21/23 16:14*	*10/22/23 14:32*	*1*
o-Terphenyl	*88*		*70 - 130*	*10/21/23 16:14*	*10/22/23 14:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16800**		253		mg/Kg			10/24/23 07:00	50

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-34717-9
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 01:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 01:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 01:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/20/23 14:23	10/21/23 01:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 01:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/20/23 14:23	10/21/23 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*10/20/23 14:23*	*10/21/23 01:34*	*1*
1,4-Difluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/21/23 01:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/21/23 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	**59.6**		50.5		mg/Kg			10/22/23 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/21/23 16:14	10/22/23 14:53	1
Diesel Range Organics (Over C10-C28)	**59.6**		50.5		mg/Kg		10/21/23 16:14	10/22/23 14:53	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/21/23 16:14	10/22/23 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/21/23 16:14*	*10/22/23 14:53*	*1*
o-Terphenyl	*118*		*70 - 130*	*10/21/23 16:14*	*10/22/23 14:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5400**		101		mg/Kg			10/24/23 07:20	20

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-34717-10
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 01:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 01:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 01:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 01:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 01:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/20/23 14:23*	*10/21/23 01:53*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/20/23 14:23*	*10/21/23 01:53*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-34717-10
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/21/23 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**221**		49.7		mg/Kg			10/22/23 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/21/23 16:14	10/22/23 15:15	1
Diesel Range Organics (Over C10-C28)	**221**		49.7		mg/Kg		10/21/23 16:14	10/22/23 15:15	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/21/23 16:14	10/22/23 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*10/21/23 16:14*	*10/22/23 15:15*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/21/23 16:14*	*10/22/23 15:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16700**		251		mg/Kg			10/24/23 07:27	50

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-34717-11
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 03:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 03:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 03:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 03:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 03:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*10/20/23 14:23*	*10/21/23 03:16*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*10/20/23 14:23*	*10/21/23 03:16*	*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			10/21/23 03:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.7**		50.0		mg/Kg			10/22/23 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:14	10/22/23 16:00	1
Diesel Range Organics (Over C10-C28)	**53.7**		50.0		mg/Kg		10/21/23 16:14	10/22/23 16:00	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (1.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:14	10/22/23 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*10/21/23 16:14*	*10/22/23 16:00*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/21/23 16:14*	*10/22/23 16:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8180**		101		mg/Kg			10/24/23 07:47	20

Client Sample ID: S-6 (0-1')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 03:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 03:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 03:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/20/23 14:23	10/21/23 03:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 03:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/20/23 14:23	10/21/23 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/20/23 14:23*	*10/21/23 03:36*	*1*
1,4-Difluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/21/23 03:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/21/23 03:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**378**		50.3		mg/Kg			10/22/23 16:22	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	<50.3	U	50.3		mg/Kg		10/21/23 16:14	10/22/23 16:22	1
Diesel Range Organics (Over C10-C28)	**378**		50.3		mg/Kg		10/21/23 16:14	10/22/23 16:22	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/21/23 16:14	10/22/23 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*10/21/23 16:14*	*10/22/23 16:22*	*1*
o-Terphenyl	*91*		*70 - 130*	*10/21/23 16:14*	*10/22/23 16:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14800**		251		mg/Kg			10/24/23 07:53	50

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-34717-13
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/21/23 03:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/21/23 03:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/21/23 03:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/20/23 14:23	10/21/23 03:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/21/23 03:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/20/23 14:23	10/21/23 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*10/20/23 14:23*	*10/21/23 03:57*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*10/20/23 14:23*	*10/21/23 03:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/21/23 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	**74.3**		50.4		mg/Kg			10/22/23 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		10/21/23 16:14	10/22/23 16:44	1
Diesel Range Organics (Over C10-C28)	**74.3**		50.4		mg/Kg		10/21/23 16:14	10/22/23 16:44	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		10/21/23 16:14	10/22/23 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*10/21/23 16:14*	*10/22/23 16:44*	*1*
o-Terphenyl	*103*		*70 - 130*	*10/21/23 16:14*	*10/22/23 16:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6760**		101		mg/Kg			10/24/23 12:58	20

Client Sample ID: S-6 (2')

Lab Sample ID: 880-34717-14
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 04:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 04:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 04:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/20/23 14:23	10/21/23 04:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 04:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/20/23 14:23	10/21/23 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*10/20/23 14:23*	*10/21/23 04:17*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*10/20/23 14:23*	*10/21/23 04:17*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (2')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/21/23 04:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**117**		50.5		mg/Kg			10/22/23 17:06	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	<50.5	U	50.5		mg/Kg		10/21/23 16:14	10/22/23 17:06	1
Diesel Range Organics (Over C10-C28)	**117**		50.5		mg/Kg		10/21/23 16:14	10/22/23 17:06	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/21/23 16:14	10/22/23 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*10/21/23 16:14*	*10/22/23 17:06*	*1*
o-Terphenyl	*118*		*70 - 130*	*10/21/23 16:14*	*10/22/23 17:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15000**		251		mg/Kg			10/24/23 08:07	50

Client Sample ID: S-7 (0-1')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/20/23 14:23	10/21/23 04:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/20/23 14:23	10/21/23 04:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/20/23 14:23	10/21/23 04:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/20/23 14:23	10/21/23 04:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/20/23 14:23	10/21/23 04:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/20/23 14:23	10/21/23 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*10/20/23 14:23*	*10/21/23 04:37*	*1*
1,4-Difluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/21/23 04:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/21/23 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**180**		49.7		mg/Kg			10/22/23 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/21/23 16:14	10/22/23 17:28	1
Diesel Range Organics (Over C10-C28)	**180**		49.7		mg/Kg		10/21/23 16:14	10/22/23 17:28	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-7 (0-1')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/21/23 16:14	10/22/23 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/21/23 16:14*	*10/22/23 17:28*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/21/23 16:14*	*10/22/23 17:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16700**		248		mg/Kg			10/24/23 08:13	50

Client Sample ID: S-7 (1.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-16

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		10/20/23 14:23	10/21/23 04:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 04:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 04:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 04:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 04:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*10/20/23 14:23*	*10/21/23 04:58*	*1*
1,4-Difluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/21/23 04:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/21/23 04:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.5**		49.7		mg/Kg			10/22/23 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/21/23 16:14	10/22/23 17:50	1
Diesel Range Organics (Over C10-C28)	**57.5**		49.7		mg/Kg		10/21/23 16:14	10/22/23 17:50	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/21/23 16:14	10/22/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*10/21/23 16:14*	*10/22/23 17:50*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/21/23 16:14*	*10/22/23 17:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7530**		99.8		mg/Kg			10/24/23 08:20	20

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-7 (2')

Lab Sample ID: 880-34717-17
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 05:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 05:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 05:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 05:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:23	10/21/23 05:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:23	10/21/23 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/20/23 14:23*	*10/21/23 05:18*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/20/23 14:23*	*10/21/23 05:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/21/23 05:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**112**		49.6		mg/Kg			10/22/23 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/21/23 16:14	10/22/23 18:12	1
Diesel Range Organics (Over C10-C28)	**112**		49.6		mg/Kg		10/21/23 16:14	10/22/23 18:12	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/21/23 16:14	10/22/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*10/21/23 16:14*	*10/22/23 18:12*	*1*
o-Terphenyl	*107*		*70 - 130*	*10/21/23 16:14*	*10/22/23 18:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15300**		250		mg/Kg			10/24/23 08:27	50

Client Sample ID: S-8 (0-1')

Lab Sample ID: 880-34717-18
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 05:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 05:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 05:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/20/23 14:23	10/21/23 05:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 05:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/20/23 14:23	10/21/23 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/20/23 14:23*	*10/21/23 05:39*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/20/23 14:23*	*10/21/23 05:39*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-8 (0-1')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-18
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/21/23 05:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**158**		49.5		mg/Kg			10/22/23 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		10/21/23 16:14	10/22/23 18:34	1
Diesel Range Organics (Over C10-C28)	**158**		49.5		mg/Kg		10/21/23 16:14	10/22/23 18:34	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		10/21/23 16:14	10/22/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*10/21/23 16:14*	*10/22/23 18:34*	*1*
o-Terphenyl	*80*		*70 - 130*	*10/21/23 16:14*	*10/22/23 18:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14000**		251		mg/Kg			10/23/23 14:40	50

Client Sample ID: S-8 (1.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/21/23 05:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/21/23 05:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/21/23 05:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/20/23 14:23	10/21/23 05:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/20/23 14:23	10/21/23 05:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/20/23 14:23	10/21/23 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*10/20/23 14:23*	*10/21/23 05:59*	*1*
1,4-Difluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*10/20/23 14:23*	*10/21/23 05:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/21/23 05:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.0**		49.5		mg/Kg			10/22/23 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		10/21/23 16:14	10/22/23 18:57	1
Diesel Range Organics (Over C10-C28)	**55.0**		49.5		mg/Kg		10/21/23 16:14	10/22/23 18:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-8 (1.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		10/21/23 16:14	10/22/23 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*10/21/23 16:14*	*10/22/23 18:57*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/21/23 16:14*	*10/22/23 18:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7750**		100		mg/Kg			10/23/23 14:45	20

Client Sample ID: S-8 (2')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-20

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 06:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/20/23 14:23	10/21/23 06:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/21/23 06:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/20/23 14:23	10/21/23 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*10/20/23 14:23*	*10/21/23 06:18*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/20/23 14:23*	*10/21/23 06:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/21/23 06:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**150**		50.4		mg/Kg			10/22/23 19:19	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	<50.4	U	50.4		mg/Kg		10/21/23 16:14	10/22/23 19:19	1
Diesel Range Organics (Over C10-C28)	**150**		50.4		mg/Kg		10/21/23 16:14	10/22/23 19:19	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		10/21/23 16:14	10/22/23 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*10/21/23 16:14*	*10/22/23 19:19*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/21/23 16:14*	*10/22/23 19:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20400**		252		mg/Kg			10/23/23 14:51	50

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-9 (0-1')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-21
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		10/23/23 14:42	10/24/23 19:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 19:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 19:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/23/23 14:42	10/24/23 19:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 19:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/23/23 14:42	10/24/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*10/23/23 14:42*	*10/24/23 19:42*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/23/23 14:42*	*10/24/23 19:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/23 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**233**		50.3		mg/Kg			10/22/23 23:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/21/23 16:22	10/22/23 23:21	1
Diesel Range Organics (Over C10-C28)	**233**		50.3		mg/Kg		10/21/23 16:22	10/22/23 23:21	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/21/23 16:22	10/22/23 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*10/21/23 16:22*	*10/22/23 23:21*	*1*
o-Terphenyl	*110*		*70 - 130*	*10/21/23 16:22*	*10/22/23 23:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17200**		252		mg/Kg			10/23/23 14:56	50

Client Sample ID: S-9 (1.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00249	U	0.00249		mg/Kg		10/23/23 14:42	10/24/23 20:03	1
Toluene	<0.00249	U	0.00249		mg/Kg		10/23/23 14:42	10/24/23 20:03	1
Ethylbenzene	<0.00249	U	0.00249		mg/Kg		10/23/23 14:42	10/24/23 20:03	1
m-Xylene & p-Xylene	<0.00499	U	0.00499		mg/Kg		10/23/23 14:42	10/24/23 20:03	1
o-Xylene	<0.00249	U	0.00249		mg/Kg		10/23/23 14:42	10/24/23 20:03	1
Xylenes, Total	<0.00499	U	0.00499		mg/Kg		10/23/23 14:42	10/24/23 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*10/23/23 14:42*	*10/24/23 20:03*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/23/23 14:42*	*10/24/23 20:03*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-9 (1.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00499	U	0.00499		mg/Kg			10/24/23 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.5**		49.9		mg/Kg			10/22/23 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	<49.9	U	49.9		mg/Kg		10/21/23 16:22	10/22/23 23:43	1
Diesel Range Organics (Over C10-C28)	**50.5**		49.9		mg/Kg		10/21/23 16:22	10/22/23 23:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/21/23 16:22	10/22/23 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/21/23 16:22*	*10/22/23 23:43*	*1*
o-Terphenyl	*122*		*70 - 130*	*10/21/23 16:22*	*10/22/23 23:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8020**		99.4		mg/Kg			10/23/23 15:02	20

Client Sample ID: S-9 (2')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-23
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		10/23/23 14:42	10/24/23 20:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 20:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 20:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/23/23 14:42	10/24/23 20:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 20:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/23/23 14:42	10/24/23 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/23/23 14:42*	*10/24/23 20:23*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*10/23/23 14:42*	*10/24/23 20:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/23 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**208**		50.5		mg/Kg			10/23/23 00:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/21/23 16:22	10/23/23 00:04	1
Diesel Range Organics (Over C10-C28)	**208**		50.5		mg/Kg		10/21/23 16:22	10/23/23 00:04	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-9 (2')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/21/23 16:22	10/23/23 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*10/21/23 16:22*	*10/23/23 00:04*	*1*
o-Terphenyl	*125*		*70 - 130*	*10/21/23 16:22*	*10/23/23 00:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20700**		248		mg/Kg			10/21/23 06:26	50

Client Sample ID: S-10 (0-1')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-24
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		10/23/23 14:42	10/24/23 20:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 20:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 20:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/23/23 14:42	10/24/23 20:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 20:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/23/23 14:42	10/24/23 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*10/23/23 14:42*	*10/24/23 20:43*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*10/23/23 14:42*	*10/24/23 20:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/23 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**251**		50.0		mg/Kg			10/23/23 00:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/21/23 16:22	10/23/23 00:25	1
Diesel Range Organics (Over C10-C28)	**251**		50.0		mg/Kg		10/21/23 16:22	10/23/23 00:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:22	10/23/23 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*10/21/23 16:22*	*10/23/23 00:25*	*1*
o-Terphenyl	*113*		*70 - 130*	*10/21/23 16:22*	*10/23/23 00:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13800**		249		mg/Kg			10/21/23 06:33	50

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-10 (1.5')

Lab Sample ID: 880-34717-25
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:22	10/21/23 18:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:22	10/21/23 18:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:22	10/21/23 18:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/20/23 14:22	10/21/23 18:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:22	10/21/23 18:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/20/23 14:22	10/21/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*10/20/23 14:22*	*10/21/23 18:12*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*10/20/23 14:22*	*10/21/23 18:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/21/23 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**60.8**		50.5		mg/Kg			10/23/23 00:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/21/23 16:22	10/23/23 00:46	1
Diesel Range Organics (Over C10-C28)	**60.8**		50.5		mg/Kg		10/21/23 16:22	10/23/23 00:46	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/21/23 16:22	10/23/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/21/23 16:22*	*10/23/23 00:46*	*1*
o-Terphenyl	*120*		*70 - 130*	*10/21/23 16:22*	*10/23/23 00:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9100**		99.0		mg/Kg			10/21/23 06:39	20

Client Sample ID: S-10 (2')

Lab Sample ID: 880-34717-26
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:22	10/21/23 18:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:22	10/21/23 18:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:22	10/21/23 18:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:22	10/21/23 18:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:22	10/21/23 18:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:22	10/21/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*10/20/23 14:22*	*10/21/23 18:33*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/20/23 14:22*	*10/21/23 18:33*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-10 (2')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-26

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/21/23 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**155**		50.0		mg/Kg			10/23/23 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	<50.0	U	50.0		mg/Kg		10/21/23 16:22	10/23/23 01:08	1
Diesel Range Organics (Over C10-C28)	**155**		50.0		mg/Kg		10/21/23 16:22	10/23/23 01:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:22	10/23/23 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/21/23 16:22*	*10/23/23 01:08*	*1*
o-Terphenyl	*120*		*70 - 130*	*10/21/23 16:22*	*10/23/23 01:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19600**		249		mg/Kg			10/21/23 06:46	50

Surrogate Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-34567-A-82-E MS	Matrix Spike	102	101										
880-34567-A-82-F MSD	Matrix Spike Duplicate	99	102										
880-34716-A-3-G MS	Matrix Spike	114	91										
880-34716-A-3-H MSD	Matrix Spike Duplicate	115	89										
880-34717-1	S-1 (0-1')	90	63 S1-										
880-34717-1 MS	S-1 (0-1')	145 S1+	117										
880-34717-1 MSD	S-1 (0-1')	149 S1+	114										
880-34717-2	S-1 (1.5')	86	62 S1-										
880-34717-3	S-1 (2')	101	70										
880-34717-4	S-2 (0-1')	83	61 S1-										
880-34717-5	S-2 (1.5')	93	77										
880-34717-6	S-3 (0-1')	88	76										
880-34717-7	S-3 (1.5')	104	54 S1-										
880-34717-8	S-4 (0-1')	85	67 S1-										
880-34717-9	S-4 (1.5')	84	65 S1-										
880-34717-10	S-5 (0-1')	95	93										
880-34717-11	S-5 (1.5')	128	70										
880-34717-12	S-6 (0-1')	110	59 S1-										
880-34717-13	S-6 (1.5')	88	70										
880-34717-14	S-6 (2')	88	86										
880-34717-15	S-7 (0-1')	103	60 S1-										
880-34717-16	S-7 (1.5')	86	62 S1-										
880-34717-17	S-7 (2')	90	85										
880-34717-18	S-8 (0-1')	89	87										
880-34717-19	S-8 (1.5')	95	61 S1-										
880-34717-20	S-8 (2')	78	93										
880-34717-21	S-9 (0-1')	86	82										
880-34717-22	S-9 (1.5')	82	91										
880-34717-23	S-9 (2')	90	76										
880-34717-24	S-10 (0-1')	87	80										
880-34717-25	S-10 (1.5')	106	118										
880-34717-26	S-10 (2')	101	100										
LCS 880-65159/1-A	Lab Control Sample	96	101										
LCS 880-65234/1-A	Lab Control Sample	136 S1+	113										
LCS 880-65370/1-A	Lab Control Sample	123	112										
LCSD 880-65159/2-A	Lab Control Sample Dup	101	110										
LCSD 880-65234/2-A	Lab Control Sample Dup	147 S1+	100										
LCSD 880-65370/2-A	Lab Control Sample Dup	113	104										
MB 880-65105/5-A	Method Blank	79	92										
MB 880-65159/5-A	Method Blank	108	134 S1+										
MB 880-65234/5-A	Method Blank	86	73										
MB 880-65235/5-A	Method Blank	109	147 S1+										
MB 880-65370/5-A	Method Blank	72	97										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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)
880-34714-A-1-H MS	Matrix Spike	100	102
880-34714-A-1-I MSD	Matrix Spike Duplicate	105	104
880-34717-1	S-1 (0-1')	108	114
880-34717-1 MS	S-1 (0-1')	77	76
880-34717-1 MSD	S-1 (0-1')	94	91
880-34717-2	S-1 (1.5')	85	96
880-34717-3	S-1 (2')	75	81
880-34717-4	S-2 (0-1')	95	96
880-34717-5	S-2 (1.5')	87	97
880-34717-6	S-3 (0-1')	97	102
880-34717-7	S-3 (1.5')	100	108
880-34717-8	S-4 (0-1')	84	88
880-34717-9	S-4 (1.5')	108	118
880-34717-10	S-5 (0-1')	98	102
880-34717-11	S-5 (1.5')	93	102
880-34717-12	S-6 (0-1')	86	91
880-34717-13	S-6 (1.5')	93	103
880-34717-14	S-6 (2')	107	118
880-34717-15	S-7 (0-1')	100	105
880-34717-16	S-7 (1.5')	92	102
880-34717-17	S-7 (2')	97	107
880-34717-18	S-8 (0-1')	78	80
880-34717-19	S-8 (1.5')	94	102
880-34717-20	S-8 (2')	95	105
880-34717-21	S-9 (0-1')	104	110
880-34717-22	S-9 (1.5')	108	122
880-34717-23	S-9 (2')	111	125
880-34717-24	S-10 (0-1')	107	113
880-34717-25	S-10 (1.5')	108	120
880-34717-26	S-10 (2')	108	120
LCS 880-65277/2-A	Lab Control Sample	102	111
LCS 880-65280/2-A	Lab Control Sample	92	102
LCSD 880-65277/3-A	Lab Control Sample Dup	91	99
LCSD 880-65280/3-A	Lab Control Sample Dup	115	127
MB 880-65277/1-A	Method Blank	164 S1+	186 S1+
MB 880-65280/1-A	Method Blank	149 S1+	170 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65105/5-A
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/19/23 16:10	10/20/23 10:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/19/23 16:10	10/20/23 10:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/19/23 16:10	10/20/23 10:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/19/23 16:10	10/20/23 10:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/19/23 16:10	10/20/23 10:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/19/23 16:10	10/20/23 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*10/19/23 16:10*	*10/20/23 10:53*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/19/23 16:10*	*10/20/23 10:53*	*1*

Lab Sample ID: MB 880-65159/5-A
Matrix: Solid
Analysis Batch: 65138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:22	10/21/23 10:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:22	10/21/23 10:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:22	10/21/23 10:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/20/23 14:22	10/21/23 10:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:22	10/21/23 10:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/20/23 14:22	10/21/23 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/20/23 14:22*	*10/21/23 10:39*	*1*
1,4-Difluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*10/20/23 14:22*	*10/21/23 10:39*	*1*

Lab Sample ID: LCS 880-65159/1-A
Matrix: Solid
Analysis Batch: 65138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	0.100	0.08820		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08658		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1819		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08621		mg/Kg		86	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-65159/2-A
Matrix: Solid
Analysis Batch: 65138

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65159

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	7	35

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-65159/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65138 — **Prep Batch: 65159**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08618		mg/Kg		86	70 - 130	2	35
Ethylbenzene			0.100	0.08596		mg/Kg		86	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1947		mg/Kg		97	70 - 130	7	35
o-Xylene			0.100	0.09385		mg/Kg		94	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-34567-A-82-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65138 — **Prep Batch: 65159**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1068		mg/Kg		107	70 - 130
Toluene	<0.00199	U	0.0996	0.08908		mg/Kg		89	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.08298		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1722		mg/Kg		86	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09204		mg/Kg		92	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-34567-A-82-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65138 — **Prep Batch: 65159**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1051		mg/Kg		106	70 - 130	2	35
Toluene	<0.00199	U	0.0990	0.08719		mg/Kg		88	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0990	0.07533		mg/Kg		76	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1591		mg/Kg		80	70 - 130	8	35
o-Xylene	<0.00199	U	0.0990	0.08664		mg/Kg		88	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-65234/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65136 — **Prep Batch: 65234**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/20/23 14:23	10/20/23 22:30	1

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-65234/5-A
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/20/23 14:23	10/20/23 22:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*10/20/23 14:23*	*10/20/23 22:30*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*10/20/23 14:23*	*10/20/23 22:30*	*1*

Lab Sample ID: LCS 880-65234/1-A
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65234

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08015		mg/Kg		80	70 - 130		
Toluene			0.100	0.08552		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.1004		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.2166		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.1102		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-65234/2-A
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65234

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08095		mg/Kg		81	70 - 130	1	35
Toluene			0.100	0.08742		mg/Kg		87	70 - 130	2	35
Ethylbenzene			0.100	0.1068		mg/Kg		107	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2272		mg/Kg		114	70 - 130	5	35
o-Xylene			0.100	0.1163		mg/Kg		116	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-34717-1 MS
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 65234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.0996	0.09055		mg/Kg		91	70 - 130		
Toluene	<0.00200	U F1	0.0996	0.09342		mg/Kg		94	70 - 130		
Ethylbenzene	<0.00200	U F1	0.0996	0.1043		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.2131		mg/Kg		107	70 - 130		
o-Xylene	<0.00200	U F1	0.0996	0.1059		mg/Kg		106	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-34717-1 MS
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 65234

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-34717-1 MSD
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 65234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0990	0.08586		mg/Kg		87	70 - 130	5	35
Toluene	<0.00200	U F1	0.0990	0.08932		mg/Kg		90	70 - 130	4	35
Ethylbenzene	<0.00200	U F1	0.0990	0.1014		mg/Kg		102	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U F1	0.198	0.2084		mg/Kg		105	70 - 130	2	35
o-Xylene	<0.00200	U F1	0.0990	0.1030		mg/Kg		104	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: MB 880-65235/5-A
Matrix: Solid
Analysis Batch: 65138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:43	10/20/23 23:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:43	10/20/23 23:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:43	10/20/23 23:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/20/23 14:43	10/20/23 23:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:43	10/20/23 23:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/20/23 14:43	10/20/23 23:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/20/23 14:43	10/20/23 23:03	1
1,4-Difluorobenzene (Surr)	147	S1+	70 - 130	10/20/23 14:43	10/20/23 23:03	1

Lab Sample ID: MB 880-65370/5-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-65370/5-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65370

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	10/23/23 14:42	10/24/23 11:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/23/23 14:42	10/24/23 11:07	1

Lab Sample ID: LCS 880-65370/1-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65370

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08870		mg/Kg		89	70 - 130		
Toluene			0.100	0.09900		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1124		mg/Kg		112	70 - 130		
m-Xylene & p-Xylene			0.200	0.2385		mg/Kg		119	70 - 130		
o-Xylene			0.100	0.1137		mg/Kg		114	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-65370/2-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65370

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09201		mg/Kg		92	70 - 130	4	35
Toluene			0.100	0.09626		mg/Kg		96	70 - 130	3	35
Ethylbenzene			0.100	0.09835		mg/Kg		98	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.2147		mg/Kg		107	70 - 130	10	35
o-Xylene			0.100	0.1029		mg/Kg		103	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-34716-A-3-G MS
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.0994	0.08660		mg/Kg		87	70 - 130		
Toluene	<0.00201	U	0.0994	0.09211		mg/Kg		93	70 - 130		
Ethylbenzene	<0.00201	U	0.0994	0.09567		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2052		mg/Kg		103	70 - 130		
o-Xylene	<0.00201	U	0.0994	0.09869		mg/Kg		99	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-34716-A-3-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65442 — **Prep Batch: 65370**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09784		mg/Kg		98	70 - 130	12	35
Toluene	<0.00201	U	0.0998	0.1064		mg/Kg		107	70 - 130	14	35
Ethylbenzene	<0.00201	U	0.0998	0.1091		mg/Kg		109	70 - 130	13	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2346		mg/Kg		118	70 - 130	13	35
o-Xylene	<0.00201	U	0.0998	0.1122		mg/Kg		112	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

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

Lab Sample ID: MB 880-65277/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65285 — **Prep Batch: 65277**

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		10/21/23 16:14	10/22/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/21/23 16:14	10/22/23 08:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:14	10/22/23 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*10/21/23 16:14*	*10/22/23 08:17*	*1*
o-Terphenyl	*186*	*S1+*	*70 - 130*	*10/21/23 16:14*	*10/22/23 08:17*	*1*

Lab Sample ID: LCS 880-65277/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65285 — **Prep Batch: 65277**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1086		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1056		mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: LCSD 880-65277/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65285 — **Prep Batch: 65277**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	950.2		mg/Kg		95	70 - 130	13	20

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-65277/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65285 — **Prep Batch: 65277**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	943.4		mg/Kg		94	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 880-34717-1 MS — **Client Sample ID: S-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65285 — **Prep Batch: 65277**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1010	976.4		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	130	F1	1010	662.5	F1	mg/Kg		53	70 - 130

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

Lab Sample ID: 880-34717-1 MSD — **Client Sample ID: S-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65285 — **Prep Batch: 65277**

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	<49.5	U	1010	1128		mg/Kg		109	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	130	F1	1010	801.7	F1	mg/Kg		67	70 - 130	19	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: MB 880-65280/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65285 — **Prep Batch: 65280**

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		10/21/23 16:22	10/22/23 20:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/21/23 16:22	10/22/23 20:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:22	10/22/23 20:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*10/21/23 16:22*	*10/22/23 20:03*	*1*
o-Terphenyl	*170*	*S1+*	*70 - 130*	*10/21/23 16:22*	*10/22/23 20:03*	*1*

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-65280/2-A
Matrix: Solid
Analysis Batch: 65285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65280

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	855.6		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	966.5		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: LCSD 880-65280/3-A
Matrix: Solid
Analysis Batch: 65285

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65280

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1019		mg/Kg		102	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	1125		mg/Kg		113	70 - 130	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*127*		*70 - 130*

Lab Sample ID: 880-34714-A-1-H MS
Matrix: Solid
Analysis Batch: 65285

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1010	799.1		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	55.1		1010	877.9		mg/Kg		82	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: 880-34714-A-1-I MSD
Matrix: Solid
Analysis Batch: 65285

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65280

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	<49.5	U	1010	863.6		mg/Kg		83	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	55.1		1010	907.4		mg/Kg		85	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-34714-A-1-I MSD
Matrix: Solid
Analysis Batch: 65285

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65280

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	104		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64956/1-A
Matrix: Solid
Analysis Batch: 65195

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/23/23 12:13	1

Lab Sample ID: LCS 880-64956/2-A
Matrix: Solid
Analysis Batch: 65195

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.8		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-64956/3-A
Matrix: Solid
Analysis Batch: 65195

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	243.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-34568-A-103-B MS
Matrix: Solid
Analysis Batch: 65195

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	27.1		251	299.4		mg/Kg		109	90 - 110		

Lab Sample ID: 880-34568-A-103-C MSD
Matrix: Solid
Analysis Batch: 65195

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	27.1		251	300.6		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-65081/1-A
Matrix: Solid
Analysis Batch: 65261

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/21/23 03:46	1

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-65081/2-A
Matrix: Solid
Analysis Batch: 65261

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	234.5		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-65081/3-A
Matrix: Solid
Analysis Batch: 65261

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	234.7		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-34568-A-27-G MS
Matrix: Solid
Analysis Batch: 65261

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	163	F1	249	352.2	F1	mg/Kg		76	90 - 110		

Lab Sample ID: 880-34568-A-27-H MSD
Matrix: Solid
Analysis Batch: 65261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	163	F1	249	352.7	F1	mg/Kg		76	90 - 110	0	20

Lab Sample ID: MB 880-65239/1-A
Matrix: Solid
Analysis Batch: 65365

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/24/23 05:08	1

Lab Sample ID: LCS 880-65239/2-A
Matrix: Solid
Analysis Batch: 65365

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.2		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-65239/3-A
Matrix: Solid
Analysis Batch: 65365

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	247.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-34717-8 MS
Matrix: Solid
Analysis Batch: 65365

Client Sample ID: S-4 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	16800		12600	29170		mg/Kg		98	90 - 110		

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-34717-8 MSD
Matrix: Solid
Analysis Batch: 65365

Client Sample ID: S-4 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16800		12600	29220		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 65105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65105/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 65136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-1	S-1 (0-1')	Total/NA	Solid	8021B	65234
880-34717-2	S-1 (1.5')	Total/NA	Solid	8021B	65234
880-34717-3	S-1 (2')	Total/NA	Solid	8021B	65234
880-34717-4	S-2 (0-1')	Total/NA	Solid	8021B	65234
880-34717-5	S-2 (1.5')	Total/NA	Solid	8021B	65234
880-34717-6	S-3 (0-1')	Total/NA	Solid	8021B	65234
880-34717-7	S-3 (1.5')	Total/NA	Solid	8021B	65234
880-34717-8	S-4 (0-1')	Total/NA	Solid	8021B	65234
880-34717-9	S-4 (1.5')	Total/NA	Solid	8021B	65234
880-34717-10	S-5 (0-1')	Total/NA	Solid	8021B	65234
880-34717-11	S-5 (1.5')	Total/NA	Solid	8021B	65234
880-34717-12	S-6 (0-1')	Total/NA	Solid	8021B	65234
880-34717-13	S-6 (1.5')	Total/NA	Solid	8021B	65234
880-34717-14	S-6 (2')	Total/NA	Solid	8021B	65234
880-34717-15	S-7 (0-1')	Total/NA	Solid	8021B	65234
880-34717-16	S-7 (1.5')	Total/NA	Solid	8021B	65234
880-34717-17	S-7 (2')	Total/NA	Solid	8021B	65234
880-34717-18	S-8 (0-1')	Total/NA	Solid	8021B	65234
880-34717-19	S-8 (1.5')	Total/NA	Solid	8021B	65234
880-34717-20	S-8 (2')	Total/NA	Solid	8021B	65234
MB 880-65105/5-A	Method Blank	Total/NA	Solid	8021B	65105
MB 880-65234/5-A	Method Blank	Total/NA	Solid	8021B	65234
LCS 880-65234/1-A	Lab Control Sample	Total/NA	Solid	8021B	65234
LCSD 880-65234/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65234
880-34717-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	65234
880-34717-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	65234

Analysis Batch: 65138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-25	S-10 (1.5')	Total/NA	Solid	8021B	65159
880-34717-26	S-10 (2')	Total/NA	Solid	8021B	65159
MB 880-65159/5-A	Method Blank	Total/NA	Solid	8021B	65159
MB 880-65235/5-A	Method Blank	Total/NA	Solid	8021B	65235
LCS 880-65159/1-A	Lab Control Sample	Total/NA	Solid	8021B	65159
LCSD 880-65159/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65159
880-34567-A-82-E MS	Matrix Spike	Total/NA	Solid	8021B	65159
880-34567-A-82-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	65159

Prep Batch: 65159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-25	S-10 (1.5')	Total/NA	Solid	5035	
880-34717-26	S-10 (2')	Total/NA	Solid	5035	
MB 880-65159/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65159/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65159/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34567-A-82-E MS	Matrix Spike	Total/NA	Solid	5035	
880-34567-A-82-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 65234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-1	S-1 (0-1')	Total/NA	Solid	5035	
880-34717-2	S-1 (1.5')	Total/NA	Solid	5035	
880-34717-3	S-1 (2')	Total/NA	Solid	5035	
880-34717-4	S-2 (0-1')	Total/NA	Solid	5035	
880-34717-5	S-2 (1.5')	Total/NA	Solid	5035	
880-34717-6	S-3 (0-1')	Total/NA	Solid	5035	
880-34717-7	S-3 (1.5')	Total/NA	Solid	5035	
880-34717-8	S-4 (0-1')	Total/NA	Solid	5035	
880-34717-9	S-4 (1.5')	Total/NA	Solid	5035	
880-34717-10	S-5 (0-1')	Total/NA	Solid	5035	
880-34717-11	S-5 (1.5')	Total/NA	Solid	5035	
880-34717-12	S-6 (0-1')	Total/NA	Solid	5035	
880-34717-13	S-6 (1.5')	Total/NA	Solid	5035	
880-34717-14	S-6 (2')	Total/NA	Solid	5035	
880-34717-15	S-7 (0-1')	Total/NA	Solid	5035	
880-34717-16	S-7 (1.5')	Total/NA	Solid	5035	
880-34717-17	S-7 (2')	Total/NA	Solid	5035	
880-34717-18	S-8 (0-1')	Total/NA	Solid	5035	
880-34717-19	S-8 (1.5')	Total/NA	Solid	5035	
880-34717-20	S-8 (2')	Total/NA	Solid	5035	
MB 880-65234/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65234/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65234/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34717-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-34717-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 65235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65235/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 65370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-21	S-9 (0-1')	Total/NA	Solid	5035	
880-34717-22	S-9 (1.5')	Total/NA	Solid	5035	
880-34717-23	S-9 (2')	Total/NA	Solid	5035	
880-34717-24	S-10 (0-1')	Total/NA	Solid	5035	
MB 880-65370/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65370/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65370/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34716-A-3-G MS	Matrix Spike	Total/NA	Solid	5035	
880-34716-A-3-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 65416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-34717-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-34717-4	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-5	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-34717-6	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-7	S-3 (1.5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 65416 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-8	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-9	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-34717-10	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-11	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-34717-12	S-6 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-13	S-6 (1.5')	Total/NA	Solid	Total BTEX	
880-34717-14	S-6 (2')	Total/NA	Solid	Total BTEX	
880-34717-15	S-7 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-16	S-7 (1.5')	Total/NA	Solid	Total BTEX	
880-34717-17	S-7 (2')	Total/NA	Solid	Total BTEX	
880-34717-18	S-8 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-19	S-8 (1.5')	Total/NA	Solid	Total BTEX	
880-34717-20	S-8 (2')	Total/NA	Solid	Total BTEX	
880-34717-21	S-9 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-22	S-9 (1.5')	Total/NA	Solid	Total BTEX	
880-34717-23	S-9 (2')	Total/NA	Solid	Total BTEX	
880-34717-24	S-10 (0-1')	Total/NA	Solid	Total BTEX	
880-34717-25	S-10 (1.5')	Total/NA	Solid	Total BTEX	
880-34717-26	S-10 (2')	Total/NA	Solid	Total BTEX	

Analysis Batch: 65442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-21	S-9 (0-1')	Total/NA	Solid	8021B	65370
880-34717-22	S-9 (1.5')	Total/NA	Solid	8021B	65370
880-34717-23	S-9 (2')	Total/NA	Solid	8021B	65370
880-34717-24	S-10 (0-1')	Total/NA	Solid	8021B	65370
MB 880-65370/5-A	Method Blank	Total/NA	Solid	8021B	65370
LCS 880-65370/1-A	Lab Control Sample	Total/NA	Solid	8021B	65370
LCSD 880-65370/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65370
880-34716-A-3-G MS	Matrix Spike	Total/NA	Solid	8021B	65370
880-34716-A-3-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	65370

GC Semi VOA

Prep Batch: 65277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-34717-4	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-5	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-6	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-7	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-8	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-9	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-10	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-11	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-12	S-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-13	S-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-14	S-6 (2')	Total/NA	Solid	8015NM Prep	
880-34717-15	S-7 (0-1')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 65277 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-16	S-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-17	S-7 (2')	Total/NA	Solid	8015NM Prep	
880-34717-18	S-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-19	S-8 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-20	S-8 (2')	Total/NA	Solid	8015NM Prep	
MB 880-65277/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65277/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34717-1 MS	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-1 MSD	S-1 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 65280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-21	S-9 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-22	S-9 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-23	S-9 (2')	Total/NA	Solid	8015NM Prep	
880-34717-24	S-10 (0-1')	Total/NA	Solid	8015NM Prep	
880-34717-25	S-10 (1.5')	Total/NA	Solid	8015NM Prep	
880-34717-26	S-10 (2')	Total/NA	Solid	8015NM Prep	
MB 880-65280/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65280/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65280/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34714-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34714-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-1	S-1 (0-1')	Total/NA	Solid	8015B NM	65277
880-34717-2	S-1 (1.5')	Total/NA	Solid	8015B NM	65277
880-34717-3	S-1 (2')	Total/NA	Solid	8015B NM	65277
880-34717-4	S-2 (0-1')	Total/NA	Solid	8015B NM	65277
880-34717-5	S-2 (1.5')	Total/NA	Solid	8015B NM	65277
880-34717-6	S-3 (0-1')	Total/NA	Solid	8015B NM	65277
880-34717-7	S-3 (1.5')	Total/NA	Solid	8015B NM	65277
880-34717-8	S-4 (0-1')	Total/NA	Solid	8015B NM	65277
880-34717-9	S-4 (1.5')	Total/NA	Solid	8015B NM	65277
880-34717-10	S-5 (0-1')	Total/NA	Solid	8015B NM	65277
880-34717-11	S-5 (1.5')	Total/NA	Solid	8015B NM	65277
880-34717-12	S-6 (0-1')	Total/NA	Solid	8015B NM	65277
880-34717-13	S-6 (1.5')	Total/NA	Solid	8015B NM	65277
880-34717-14	S-6 (2')	Total/NA	Solid	8015B NM	65277
880-34717-15	S-7 (0-1')	Total/NA	Solid	8015B NM	65277
880-34717-16	S-7 (1.5')	Total/NA	Solid	8015B NM	65277
880-34717-17	S-7 (2')	Total/NA	Solid	8015B NM	65277
880-34717-18	S-8 (0-1')	Total/NA	Solid	8015B NM	65277
880-34717-19	S-8 (1.5')	Total/NA	Solid	8015B NM	65277
880-34717-20	S-8 (2')	Total/NA	Solid	8015B NM	65277
880-34717-21	S-9 (0-1')	Total/NA	Solid	8015B NM	65280
880-34717-22	S-9 (1.5')	Total/NA	Solid	8015B NM	65280
880-34717-23	S-9 (2')	Total/NA	Solid	8015B NM	65280
880-34717-24	S-10 (0-1')	Total/NA	Solid	8015B NM	65280

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 65285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-25	S-10 (1.5')	Total/NA	Solid	8015B NM	65280
880-34717-26	S-10 (2')	Total/NA	Solid	8015B NM	65280
MB 880-65277/1-A	Method Blank	Total/NA	Solid	8015B NM	65277
MB 880-65280/1-A	Method Blank	Total/NA	Solid	8015B NM	65280
LCS 880-65277/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65277
LCS 880-65280/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65280
LCSD 880-65277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65277
LCSD 880-65280/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65280
880-34714-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	65280
880-34714-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	65280
880-34717-1 MS	S-1 (0-1')	Total/NA	Solid	8015B NM	65277
880-34717-1 MSD	S-1 (0-1')	Total/NA	Solid	8015B NM	65277

Analysis Batch: 65404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-34717-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-34717-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-34717-4	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-34717-5	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-34717-6	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-34717-7	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-34717-8	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-34717-9	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-34717-10	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-34717-11	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-34717-12	S-6 (0-1')	Total/NA	Solid	8015 NM	
880-34717-13	S-6 (1.5')	Total/NA	Solid	8015 NM	
880-34717-14	S-6 (2')	Total/NA	Solid	8015 NM	
880-34717-15	S-7 (0-1')	Total/NA	Solid	8015 NM	
880-34717-16	S-7 (1.5')	Total/NA	Solid	8015 NM	
880-34717-17	S-7 (2')	Total/NA	Solid	8015 NM	
880-34717-18	S-8 (0-1')	Total/NA	Solid	8015 NM	
880-34717-19	S-8 (1.5')	Total/NA	Solid	8015 NM	
880-34717-20	S-8 (2')	Total/NA	Solid	8015 NM	
880-34717-21	S-9 (0-1')	Total/NA	Solid	8015 NM	
880-34717-22	S-9 (1.5')	Total/NA	Solid	8015 NM	
880-34717-23	S-9 (2')	Total/NA	Solid	8015 NM	
880-34717-24	S-10 (0-1')	Total/NA	Solid	8015 NM	
880-34717-25	S-10 (1.5')	Total/NA	Solid	8015 NM	
880-34717-26	S-10 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-18	S-8 (0-1')	Soluble	Solid	DI Leach	
880-34717-19	S-8 (1.5')	Soluble	Solid	DI Leach	
880-34717-20	S-8 (2')	Soluble	Solid	DI Leach	
880-34717-21	S-9 (0-1')	Soluble	Solid	DI Leach	
880-34717-22	S-9 (1.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 64956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64956/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64956/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64956/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34568-A-103-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34568-A-103-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 65081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-23	S-9 (2')	Soluble	Solid	DI Leach	
880-34717-24	S-10 (0-1')	Soluble	Solid	DI Leach	
880-34717-25	S-10 (1.5')	Soluble	Solid	DI Leach	
880-34717-26	S-10 (2')	Soluble	Solid	DI Leach	
MB 880-65081/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65081/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65081/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34568-A-27-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34568-A-27-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 65195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-18	S-8 (0-1')	Soluble	Solid	300.0	64956
880-34717-19	S-8 (1.5')	Soluble	Solid	300.0	64956
880-34717-20	S-8 (2')	Soluble	Solid	300.0	64956
880-34717-21	S-9 (0-1')	Soluble	Solid	300.0	64956
880-34717-22	S-9 (1.5')	Soluble	Solid	300.0	64956
MB 880-64956/1-A	Method Blank	Soluble	Solid	300.0	64956
LCS 880-64956/2-A	Lab Control Sample	Soluble	Solid	300.0	64956
LCSD 880-64956/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64956
880-34568-A-103-B MS	Matrix Spike	Soluble	Solid	300.0	64956
880-34568-A-103-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	64956

Leach Batch: 65239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-34717-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-34717-3	S-1 (2')	Soluble	Solid	DI Leach	
880-34717-4	S-2 (0-1')	Soluble	Solid	DI Leach	
880-34717-5	S-2 (1.5')	Soluble	Solid	DI Leach	
880-34717-6	S-3 (0-1')	Soluble	Solid	DI Leach	
880-34717-7	S-3 (1.5')	Soluble	Solid	DI Leach	
880-34717-8	S-4 (0-1')	Soluble	Solid	DI Leach	
880-34717-9	S-4 (1.5')	Soluble	Solid	DI Leach	
880-34717-10	S-5 (0-1')	Soluble	Solid	DI Leach	
880-34717-11	S-5 (1.5')	Soluble	Solid	DI Leach	
880-34717-12	S-6 (0-1')	Soluble	Solid	DI Leach	
880-34717-13	S-6 (1.5')	Soluble	Solid	DI Leach	
880-34717-14	S-6 (2')	Soluble	Solid	DI Leach	
880-34717-15	S-7 (0-1')	Soluble	Solid	DI Leach	
880-34717-16	S-7 (1.5')	Soluble	Solid	DI Leach	
880-34717-17	S-7 (2')	Soluble	Solid	DI Leach	
MB 880-65239/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 65239 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-65239/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65239/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34717-8 MS	S-4 (0-1')	Soluble	Solid	DI Leach	
880-34717-8 MSD	S-4 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 65261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-23	S-9 (2')	Soluble	Solid	300.0	65081
880-34717-24	S-10 (0-1')	Soluble	Solid	300.0	65081
880-34717-25	S-10 (1.5')	Soluble	Solid	300.0	65081
880-34717-26	S-10 (2')	Soluble	Solid	300.0	65081
MB 880-65081/1-A	Method Blank	Soluble	Solid	300.0	65081
LCS 880-65081/2-A	Lab Control Sample	Soluble	Solid	300.0	65081
LCSD 880-65081/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65081
880-34568-A-27-G MS	Matrix Spike	Soluble	Solid	300.0	65081
880-34568-A-27-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	65081

Analysis Batch: 65365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34717-1	S-1 (0-1')	Soluble	Solid	300.0	65239
880-34717-2	S-1 (1.5')	Soluble	Solid	300.0	65239
880-34717-3	S-1 (2')	Soluble	Solid	300.0	65239
880-34717-4	S-2 (0-1')	Soluble	Solid	300.0	65239
880-34717-5	S-2 (1.5')	Soluble	Solid	300.0	65239
880-34717-6	S-3 (0-1')	Soluble	Solid	300.0	65239
880-34717-7	S-3 (1.5')	Soluble	Solid	300.0	65239
880-34717-8	S-4 (0-1')	Soluble	Solid	300.0	65239
880-34717-9	S-4 (1.5')	Soluble	Solid	300.0	65239
880-34717-10	S-5 (0-1')	Soluble	Solid	300.0	65239
880-34717-11	S-5 (1.5')	Soluble	Solid	300.0	65239
880-34717-12	S-6 (0-1')	Soluble	Solid	300.0	65239
880-34717-13	S-6 (1.5')	Soluble	Solid	300.0	65239
880-34717-14	S-6 (2')	Soluble	Solid	300.0	65239
880-34717-15	S-7 (0-1')	Soluble	Solid	300.0	65239
880-34717-16	S-7 (1.5')	Soluble	Solid	300.0	65239
880-34717-17	S-7 (2')	Soluble	Solid	300.0	65239
MB 880-65239/1-A	Method Blank	Soluble	Solid	300.0	65239
LCS 880-65239/2-A	Lab Control Sample	Soluble	Solid	300.0	65239
LCSD 880-65239/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65239
880-34717-8 MS	S-4 (0-1')	Soluble	Solid	300.0	65239
880-34717-8 MSD	S-4 (0-1')	Soluble	Solid	300.0	65239

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-1')

Lab Sample ID: 880-34717-1
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/20/23 22:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/20/23 22:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 11:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 11:12	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65365	10/24/23 06:01	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-34717-2
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/20/23 23:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/20/23 23:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 12:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 12:18	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65365	10/24/23 06:07	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-34717-3
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/20/23 23:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/20/23 23:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 12:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65365	10/24/23 12:52	CH	EET MID

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-34717-4
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.967 g	5 mL	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/20/23 23:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/20/23 23:52	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-34717-4
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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			65404	10/22/23 13:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 13:02	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65365	10/24/23 06:34	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-34717-5
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 00:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 00:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 13:25	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65365	10/24/23 06:41	CH	EET MID

Client Sample ID: S-3 (0-1')

Lab Sample ID: 880-34717-6
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 00:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 00:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 13:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65365	10/24/23 06:47	CH	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-34717-7
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 00:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 00:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 14:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 14:09	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-34717-7
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65365	10/24/23 06:54	CH	EET MID

Client Sample ID: S-4 (0-1')

Lab Sample ID: 880-34717-8
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 01:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 01:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 14:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65365	10/24/23 07:00	CH	EET MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-34717-9
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 01:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 01:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 14:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 14:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65365	10/24/23 07:20	CH	EET MID

Client Sample ID: S-5 (0-1')

Lab Sample ID: 880-34717-10
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 01:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 01:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 15:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 15:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65365	10/24/23 07:27	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-34717-11
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 03:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 03:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 16:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 16:00	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65365	10/24/23 07:47	CH	EET MID

Client Sample ID: S-6 (0-1')

Lab Sample ID: 880-34717-12
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 03:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 03:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 16:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 16:22	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65365	10/24/23 07:53	CH	EET MID

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-34717-13
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 03:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 03:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 16:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 16:44	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65365	10/24/23 12:58	CH	EET MID

Client Sample ID: S-6 (2')

Lab Sample ID: 880-34717-14
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 04:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 04:17	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (2')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			65404	10/22/23 17:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 17:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65365	10/24/23 08:07	CH	EET MID

Client Sample ID: S-7 (0-1')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 04:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 04:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65365	10/24/23 08:13	CH	EET MID

Client Sample ID: S-7 (1.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 04:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 04:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 17:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 17:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65365	10/24/23 08:20	CH	EET MID

Client Sample ID: S-7 (2')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34717-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 05:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 05:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 18:12	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-7 (2')

Lab Sample ID: 880-34717-17
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65365	10/24/23 08:27	CH	EET MID

Client Sample ID: S-8 (0-1')

Lab Sample ID: 880-34717-18
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 05:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 05:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 18:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 18:34	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	64956	10/20/23 15:02	SA	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65195	10/23/23 14:40	CH	EET MID

Client Sample ID: S-8 (1.5')

Lab Sample ID: 880-34717-19
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 05:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 05:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 18:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 18:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64956	10/20/23 15:02	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65195	10/23/23 14:45	CH	EET MID

Client Sample ID: S-8 (2')

Lab Sample ID: 880-34717-20
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65234	10/20/23 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 06:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 06:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 19:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	65277	10/21/23 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 19:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64956	10/20/23 15:02	SA	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65195	10/23/23 14:51	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-9 (0-1')

Lab Sample ID: 880-34717-21
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/24/23 19:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/24/23 19:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 23:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	65280	10/21/23 16:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 23:21	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	64956	10/20/23 15:02	SA	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65195	10/23/23 14:56	CH	EET MID

Client Sample ID: S-9 (1.5')

Lab Sample ID: 880-34717-22
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.01 g	5 mL	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/24/23 20:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/24/23 20:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/22/23 23:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	65280	10/21/23 16:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/22/23 23:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64956	10/20/23 15:02	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65195	10/23/23 15:02	CH	EET MID

Client Sample ID: S-9 (2')

Lab Sample ID: 880-34717-23
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/24/23 20:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/24/23 20:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/23/23 00:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	65280	10/21/23 16:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/23/23 00:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65081	10/20/23 14:59	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65261	10/21/23 06:26	CH	EET MID

Client Sample ID: S-10 (0-1')

Lab Sample ID: 880-34717-24
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/24/23 20:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/24/23 20:43	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Client Sample ID: S-10 (0-1')

Lab Sample ID: 880-34717-24
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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			65404	10/23/23 00:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	65280	10/21/23 16:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/23/23 00:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65081	10/20/23 14:59	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65261	10/21/23 06:33	CH	EET MID

Client Sample ID: S-10 (1.5')

Lab Sample ID: 880-34717-25
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65159	10/20/23 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65138	10/21/23 18:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/23/23 00:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65280	10/21/23 16:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/23/23 00:46	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	65081	10/20/23 14:59	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	65261	10/21/23 06:39	CH	EET MID

Client Sample ID: S-10 (2')

Lab Sample ID: 880-34717-26
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65159	10/20/23 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65138	10/21/23 18:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65416	10/21/23 18:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			65404	10/23/23 01:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	65280	10/21/23 16:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65285	10/23/23 01:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	65081	10/20/23 14:59	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	65261	10/21/23 06:46	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34717-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34717-1	S-1 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-2	S-1 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-3	S-1 (2')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-4	S-2 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-5	S-2 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-6	S-3 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-7	S-3 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-8	S-4 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-9	S-4 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-10	S-5 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-11	S-5 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-12	S-6 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-13	S-6 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-14	S-6 (2')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-15	S-7 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-16	S-7 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-17	S-7 (2')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-18	S-8 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-19	S-8 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-20	S-8 (2')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-21	S-9 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-22	S-9 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-23	S-9 (2')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-24	S-10 (0-1')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-25	S-10 (1.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34717-26	S-10 (2')	Solid	10/16/23 00:00	10/20/23 12:41

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W

880-34717 Chain of Custody

10/25/2023

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Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Asio Flowline	Turn Around	
Project Number	2099	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice.	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+0.2
Sample Custody Seals.	Yes No N/A	Temperature Reading	2.4
Total Containers		Corrected Temperature:	2.6

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2S0_4 H_2 NaOH Na

H_3PO_4. HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-1 (0-1')	10/16/2023		X		G	1	X	X	X	
S-1 (1.5')	10/16/2023		X		G	1	X	X	X	
S-1 (2')	10/16/2023		X		G	1	X	X	X	
S-2 (0-1')	10/16/2023		X		G	1	X	X	X	
S-2 (1.5')	10/16/2023		X		G	1	X	X	X	
S-3 (0-1')	10/16/2023		X		G	1	X	X	X	
S-3 (1 5')	10/16/2023		X		G	1	X	X	X	
S-4 (0-1')	10/16/2023		X		G	1	X	X	X	
S-4 (1.5')	10/16/2023		X		G	1	X	X	X	
S-5 (0-1')	10/16/2023		X		G	1	X	X	X	

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Conner Moehring	10/20/23 1241		

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Received by OCD: 9/5/2024 9:00:34 AM

Released to Imaging: 9/23/2024 11:17:35 AM

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Work Order No: 34717

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other

Project Name	Asio Flowline	Turn Around	☐ Routine ☑ Rush
Project Number	2099	Pres. Code	
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice	Yes No	
Received Intact	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3. HN; H_2S0_4 H_2; NaOH Na; H_3PO_4. HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-5 (1.5')	10/16/2023		X		G	1	X	X	X	
S-6 (0-1')	10/16/2023		X		G	1	X	X	X	
S-6 (1.5')	10/16/2023		X		G	1	X	X	X	
S-6 (2')	10/16/2023		X		G	1	X	X	X	
S-7 (0-1')	10/16/2023		X		G	1	X	X	X	
S-7 (1 5')	10/16/2023		X		G	1	X	X	X	
S-7 (2')	10/16/2023		X		G	1	X	X	X	
S-8 (0-1')	10/16/2023		X		G	1	X	X	X	
S-8 (1 5')	10/16/2023		X		G	1	X	X	X	
S-8 (2')	10/16/2023		X		G	1	X	X	X	

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Conner Moehring	10/20/23 1241		

10/25/2023

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Released to Imaging: 9/23/2024 11:17:35 AM

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Loc: 880
34717

Work Order No: __ __

10/25/2023

Page ___3___ of ___3___

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	Asio Flowline	Turn Around	
Project Number	2099	☐ Routine	☑ Rush
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature		

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3 HN

H_2S0_4 H_2 NaOH Na

H_3PO_4. HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-9 (0-1')	10/16/2023		X		G	1		X	X	X	
S-9 (1 5')	10/16/2023		X		G	1		X	X	X	
S-9 (2')	10/16/2023		X		G	1		X	X	X	
S-10 (0-1')	10/16/2023		X		G	1		X	X	X	
S-10 (1.5')	10/16/2023		X		G	1		X	X	X	
S-10 (2')	10/16/2023		X		G	1		X	X	X	

Parameters

ANALYSIS REQUEST

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Conner Moehring	10/20/23 1241		

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Received by OCD: 9/5/2024 9:00:34 AM

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34717-1
SDG Number: Eddy County, New Mexico

Login Number: 34717
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Carmona
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 10/25/2023 10:45:58 AM

JOB DESCRIPTION

Asio Flowline
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-34716-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 9/23/2024 11:17:33 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
10/25/2023 10:45:58 AM

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

Client: Carmona Resources
Project/Site: Asio Flowline

Laboratory Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Table of Contents

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

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

HPLC/IC

Qualifier	Qualifier Description
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: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Job ID: 880-34716-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-34716-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt
The samples were received on 10/20/2023 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-34716-1), H-2 (0-0.5') (880-34716-2), H-3 (0-0.5') (880-34716-3), H-4 (0-0.5') (880-34716-4), H-5 (0-0.5') (880-34716-5) and H-6 (0-0.5') (880-34716-6).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-34716-1), H-2 (0-0.5') (880-34716-2), (LCSD 880-65233/2-A) and (880-34714-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (880-34714-A-1-B MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-34714-A-1-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-65136 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-65136/35).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65276 and analytical batch 880-65282 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65282/20), (CCV 880-65282/31) and (CCV 880-65282/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-65276 and analytical batch 880-65282 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Case Narrative

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Job ID: 880-34716-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34716-1
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		10/20/23 14:10	10/21/23 12:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:10	10/21/23 12:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:10	10/21/23 12:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:10	10/21/23 12:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:10	10/21/23 12:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:10	10/21/23 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*10/20/23 14:10*	*10/21/23 12:08*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*10/20/23 14:10*	*10/21/23 12:08*	*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			10/21/23 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/22/23 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		10/21/23 16:11	10/22/23 17:28	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/21/23 16:11	10/22/23 17:28	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/21/23 16:11	10/22/23 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*10/21/23 16:11*	*10/22/23 17:28*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/21/23 16:11*	*10/22/23 17:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.2**		5.00		mg/Kg			10/24/23 04:21	1

Client Sample ID: H-2 (0-0.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34716-2
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		10/20/23 14:10	10/21/23 12:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:10	10/21/23 12:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:10	10/21/23 12:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/20/23 14:10	10/21/23 12:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/20/23 14:10	10/21/23 12:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/20/23 14:10	10/21/23 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*10/20/23 14:10*	*10/21/23 12:28*	*1*
1,4-Difluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*10/20/23 14:10*	*10/21/23 12:28*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Client Sample ID: H-2 (0-0.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34716-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/21/23 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			10/22/23 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		10/21/23 16:11	10/22/23 17:50	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		10/21/23 16:11	10/22/23 17:50	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		10/21/23 16:11	10/22/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*10/21/23 16:11*	*10/22/23 17:50*	*1*
o-Terphenyl	*106*		*70 - 130*	*10/21/23 16:11*	*10/22/23 17:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.0**		5.05		mg/Kg			10/24/23 04:28	1

Client Sample ID: H-3 (0-0.5')

Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

Lab Sample ID: 880-34716-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/23/23 14:42	10/24/23 15:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/23/23 14:42	10/24/23 15:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/23/23 14:42	10/24/23 15:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/23/23 14:42	10/24/23 15:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/23/23 14:42	10/24/23 15:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/23/23 14:42	10/24/23 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*10/23/23 14:42*	*10/24/23 15:56*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*10/23/23 14:42*	*10/24/23 15:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/24/23 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			10/22/23 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		10/21/23 16:11	10/22/23 18:12	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		10/21/23 16:11	10/22/23 18:12	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-34716-3
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		10/21/23 16:11	10/22/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*10/21/23 16:11*	*10/22/23 18:12*	*1*
o-Terphenyl	*101*		*70 - 130*	*10/21/23 16:11*	*10/22/23 18:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.2**		4.96		mg/Kg			10/24/23 04:35	1

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-34716-4
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 18:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 18:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 18:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/23/23 14:42	10/24/23 18:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 18:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/23/23 14:42	10/24/23 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*10/23/23 14:42*	*10/24/23 18:41*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*10/23/23 14:42*	*10/24/23 18:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/24/23 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/22/23 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/21/23 16:11	10/22/23 18:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/21/23 16:11	10/22/23 18:34	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/21/23 16:11	10/22/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*10/21/23 16:11*	*10/22/23 18:34*	*1*
o-Terphenyl	*98*		*70 - 130*	*10/21/23 16:11*	*10/22/23 18:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**345**		50.3		mg/Kg			10/24/23 05:28	10

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-34716-5
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 19:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 19:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/23/23 14:42	10/24/23 19:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/23/23 14:42	10/24/23 19:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/23/23 14:42	10/24/23 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*10/23/23 14:42*	*10/24/23 19:01*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*10/23/23 14:42*	*10/24/23 19:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/24/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/22/23 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/21/23 16:11	10/22/23 18:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/21/23 16:11	10/22/23 18:57	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/21/23 16:11	10/22/23 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*10/21/23 16:11*	*10/22/23 18:57*	*1*
o-Terphenyl	*99*		*70 - 130*	*10/21/23 16:11*	*10/22/23 18:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.4**		4.99		mg/Kg			10/24/23 12:39	1

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-34716-6
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/23/23 14:42	10/24/23 19:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/23/23 14:42	10/24/23 19:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/23/23 14:42	10/24/23 19:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/23/23 14:42	10/24/23 19:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/23/23 14:42	10/24/23 19:22	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/23/23 14:42	10/24/23 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*10/23/23 14:42*	*10/24/23 19:22*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/23/23 14:42*	*10/24/23 19:22*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-34716-6

Date Collected: 10/16/23 00:00
Matrix: Solid
Date Received: 10/20/23 12:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/24/23 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/22/23 19:19	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	<49.6	U	49.6		mg/Kg		10/21/23 16:11	10/22/23 19:19	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		10/21/23 16:11	10/22/23 19:19	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/21/23 16:11	10/22/23 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*10/21/23 16:11*	*10/22/23 19:19*	*1*
o-Terphenyl	*99*		*70 - 130*	*10/21/23 16:11*	*10/22/23 19:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.8**		4.98		mg/Kg			10/24/23 12:45	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-34714-A-1-A MS	Matrix Spike	133 S1+	99
880-34714-A-1-B MSD	Matrix Spike Duplicate	79	92
880-34716-1	H-1 (0-0.5')	90	63 S1-
880-34716-2	H-2 (0-0.5')	84	65 S1-
880-34716-3	H-3 (0-0.5')	84	72
880-34716-3 MS	H-3 (0-0.5')	114	91
880-34716-3 MSD	H-3 (0-0.5')	115	89
880-34716-4	H-4 (0-0.5')	78	76
880-34716-5	H-5 (0-0.5')	80	76
880-34716-6	H-6 (0-0.5')	79	87
LCS 880-65233/1-A	Lab Control Sample	130	83
LCS 880-65370/1-A	Lab Control Sample	123	112
LCSD 880-65233/2-A	Lab Control Sample Dup	141 S1+	103
LCSD 880-65370/2-A	Lab Control Sample Dup	113	104
MB 880-65233/5-A	Method Blank	89	94
MB 880-65234/5-A	Method Blank	86	73
MB 880-65370/5-A	Method Blank	72	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34716-1	H-1 (0-0.5')	123	102
880-34716-2	H-2 (0-0.5')	126	106
880-34716-3	H-3 (0-0.5')	118	101
880-34716-4	H-4 (0-0.5')	118	98
880-34716-5	H-5 (0-0.5')	123	99
880-34716-6	H-6 (0-0.5')	120	99
880-34727-A-1-I MS	Matrix Spike	103	109
880-34727-A-1-J MSD	Matrix Spike Duplicate	118	95
LCS 880-65276/2-A	Lab Control Sample	110	128
LCSD 880-65276/3-A	Lab Control Sample Dup	108	120
MB 880-65276/1-A	Method Blank	194 S1+	188 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65233/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65136 — **Prep Batch: 65233**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:10	10/21/23 09:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:10	10/21/23 09:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:10	10/21/23 09:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/20/23 14:10	10/21/23 09:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:10	10/21/23 09:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/20/23 14:10	10/21/23 09:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*10/20/23 14:10*	*10/21/23 09:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/20/23 14:10*	*10/21/23 09:03*	*1*

Lab Sample ID: LCS 880-65233/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65136 — **Prep Batch: 65233**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08263		mg/Kg		83	70 - 130		
Toluene			0.100	0.09027		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09772		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.2114		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.1081		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*

Lab Sample ID: LCSD 880-65233/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65136 — **Prep Batch: 65233**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09465		mg/Kg		95	70 - 130	14	35
Toluene			0.100	0.09797		mg/Kg		98	70 - 130	8	35
Ethylbenzene			0.100	0.1081		mg/Kg		108	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.2279		mg/Kg		114	70 - 130	8	35
o-Xylene			0.100	0.1125		mg/Kg		112	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-34714-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65136 — **Prep Batch: 65233**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F2 F1	0.0996	0.08891		mg/Kg		89	70 - 130		
Toluene	<0.00200	U F1	0.0996	0.08882		mg/Kg		89	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-34714-A-1-A MS
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0996	0.09798		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.2078		mg/Kg		104	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.1022		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-34714-A-1-B MSD
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0990	<0.00198	U F2 F1	mg/Kg		0.5	70 - 130	198	35
Toluene	<0.00200	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00200	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00401	U F1	0.198	<0.00396	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00200	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 880-65234/5-A
Matrix: Solid
Analysis Batch: 65136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/20/23 14:23	10/20/23 22:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/23 14:23	10/20/23 22:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/20/23 14:23	10/20/23 22:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*10/20/23 14:23*	*10/20/23 22:30*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*10/20/23 14:23*	*10/20/23 22:30*	*1*

Lab Sample ID: MB 880-65370/5-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-65370/5-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/23/23 14:42	10/24/23 11:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/23/23 14:42	10/24/23 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*10/23/23 14:42*	*10/24/23 11:07*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/23/23 14:42*	*10/24/23 11:07*	*1*

Lab Sample ID: LCS 880-65370/1-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08870		mg/Kg		89	70 - 130
Toluene	0.100	0.09900		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2385		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-65370/2-A
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65370

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09201		mg/Kg		92	70 - 130	4	35
Toluene	0.100	0.09626		mg/Kg		96	70 - 130	3	35
Ethylbenzene	0.100	0.09835		mg/Kg		98	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2147		mg/Kg		107	70 - 130	10	35
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-34716-3 MS
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: H-3 (0-0.5')
Prep Type: Total/NA
Prep Batch: 65370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0994	0.08660		mg/Kg		87	70 - 130
Toluene	<0.00201	U	0.0994	0.09211		mg/Kg		93	70 - 130
Ethylbenzene	<0.00201	U	0.0994	0.09567		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2052		mg/Kg		103	70 - 130
o-Xylene	<0.00201	U	0.0994	0.09869		mg/Kg		99	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-34716-3 MS
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: H-3 (0-0.5')
Prep Type: Total/NA
Prep Batch: 65370

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-34716-3 MSD
Matrix: Solid
Analysis Batch: 65442

Client Sample ID: H-3 (0-0.5')
Prep Type: Total/NA
Prep Batch: 65370

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09784		mg/Kg		98	70 - 130	12	35
Toluene	<0.00201	U	0.0998	0.1064		mg/Kg		107	70 - 130	14	35
Ethylbenzene	<0.00201	U	0.0998	0.1091		mg/Kg		109	70 - 130	13	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2346		mg/Kg		118	70 - 130	13	35
o-Xylene	<0.00201	U	0.0998	0.1122		mg/Kg		112	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

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

Lab Sample ID: MB 880-65276/1-A
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65276

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		10/21/23 16:11	10/22/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/23 16:11	10/22/23 08:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	194	S1+	70 - 130	10/21/23 16:11	10/22/23 08:17	1
o-Terphenyl	188	S1+	70 - 130	10/21/23 16:11	10/22/23 08:17	1

Lab Sample ID: LCS 880-65276/2-A
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	981.7		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	956.4		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	128		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-65276/3-A
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65276

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	975.5		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	910.9		mg/Kg		91	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: 880-34727-A-1-I MS
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65276

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	1010	1000		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F2	1010	929.0		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: 880-34727-A-1-J MSD
Matrix: Solid
Analysis Batch: 65282

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65276

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	1010	1030		mg/Kg		99	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F2	1010	1187	F2	mg/Kg		116	70 - 130	24	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65238/1-A
Matrix: Solid
Analysis Batch: 65364

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/24/23 01:16	1

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-65238/2-A
Matrix: Solid
Analysis Batch: 65364

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-65238/3-A
Matrix: Solid
Analysis Batch: 65364

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	245.8		mg/Kg		98	90 - 110	2	20

Lab Sample ID: 880-34707-A-1-C MS
Matrix: Solid
Analysis Batch: 65364

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	326		250	567.5		mg/Kg		97	90 - 110		

Lab Sample ID: 880-34707-A-1-D MSD
Matrix: Solid
Analysis Batch: 65364

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	326		250	563.0		mg/Kg		95	90 - 110	1	20

Lab Sample ID: MB 880-65239/1-A
Matrix: Solid
Analysis Batch: 65365

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/24/23 05:08	1

Lab Sample ID: LCS 880-65239/2-A
Matrix: Solid
Analysis Batch: 65365

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.2		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-65239/3-A
Matrix: Solid
Analysis Batch: 65365

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	247.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-34716-4 MS
Matrix: Solid
Analysis Batch: 65365

Client Sample ID: H-4 (0-0.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	345		2520	2860		mg/Kg		100	90 - 110		

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-34716-4 MSD
Matrix: Solid
Analysis Batch: 65365

Client Sample ID: H-4 (0-0.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	345		2520	2881		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 65136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-1	H-1 (0-0.5')	Total/NA	Solid	8021B	65233
880-34716-2	H-2 (0-0.5')	Total/NA	Solid	8021B	65233
MB 880-65233/5-A	Method Blank	Total/NA	Solid	8021B	65233
MB 880-65234/5-A	Method Blank	Total/NA	Solid	8021B	65234
LCS 880-65233/1-A	Lab Control Sample	Total/NA	Solid	8021B	65233
LCSD 880-65233/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65233
880-34714-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	65233
880-34714-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	65233

Prep Batch: 65233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-34716-2	H-2 (0-0.5')	Total/NA	Solid	5035	
MB 880-65233/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65233/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65233/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34714-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-34714-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 65234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65234/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 65370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-34716-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-34716-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-34716-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-65370/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65370/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65370/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-34716-3 MS	H-3 (0-0.5')	Total/NA	Solid	5035	
880-34716-3 MSD	H-3 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 65418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34716-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34716-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34716-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34716-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-34716-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

Analysis Batch: 65442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-3	H-3 (0-0.5')	Total/NA	Solid	8021B	65370
880-34716-4	H-4 (0-0.5')	Total/NA	Solid	8021B	65370
880-34716-5	H-5 (0-0.5')	Total/NA	Solid	8021B	65370
880-34716-6	H-6 (0-0.5')	Total/NA	Solid	8021B	65370
MB 880-65370/5-A	Method Blank	Total/NA	Solid	8021B	65370

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 65442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-65370/1-A	Lab Control Sample	Total/NA	Solid	8021B	65370
LCSD 880-65370/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65370
880-34716-3 MS	H-3 (0-0.5')	Total/NA	Solid	8021B	65370
880-34716-3 MSD	H-3 (0-0.5')	Total/NA	Solid	8021B	65370

GC Semi VOA

Prep Batch: 65276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34716-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34716-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34716-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34716-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-34716-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-65276/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65276/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34727-A-1-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34727-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	65276
880-34716-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	65276
880-34716-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	65276
880-34716-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	65276
880-34716-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	65276
880-34716-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	65276
MB 880-65276/1-A	Method Blank	Total/NA	Solid	8015B NM	65276
LCS 880-65276/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65276
LCSD 880-65276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65276
880-34727-A-1-I MS	Matrix Spike	Total/NA	Solid	8015B NM	65276
880-34727-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	65276

Analysis Batch: 65376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-34716-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-34716-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-34716-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-34716-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-34716-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 65238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-34716-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-34716-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-65238/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 65238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-65238/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65238/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34707-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-34707-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 65239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-34716-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-34716-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-65239/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65239/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65239/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-34716-4 MS	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-34716-4 MSD	H-4 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 65364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-1	H-1 (0-0.5')	Soluble	Solid	300.0	65238
880-34716-2	H-2 (0-0.5')	Soluble	Solid	300.0	65238
880-34716-3	H-3 (0-0.5')	Soluble	Solid	300.0	65238
MB 880-65238/1-A	Method Blank	Soluble	Solid	300.0	65238
LCS 880-65238/2-A	Lab Control Sample	Soluble	Solid	300.0	65238
LCSD 880-65238/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65238
880-34707-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	65238
880-34707-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	65238

Analysis Batch: 65365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34716-4	H-4 (0-0.5')	Soluble	Solid	300.0	65239
880-34716-5	H-5 (0-0.5')	Soluble	Solid	300.0	65239
880-34716-6	H-6 (0-0.5')	Soluble	Solid	300.0	65239
MB 880-65239/1-A	Method Blank	Soluble	Solid	300.0	65239
LCS 880-65239/2-A	Lab Control Sample	Soluble	Solid	300.0	65239
LCSD 880-65239/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65239
880-34716-4 MS	H-4 (0-0.5')	Soluble	Solid	300.0	65239
880-34716-4 MSD	H-4 (0-0.5')	Soluble	Solid	300.0	65239

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-34716-1
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65233	10/20/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 12:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65418	10/21/23 12:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			65376	10/22/23 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	65238	10/20/23 14:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65364	10/24/23 04:21	CH	EET MID

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-34716-2
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65233	10/20/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65136	10/21/23 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65418	10/21/23 12:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			65376	10/22/23 17:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 17:50	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65238	10/20/23 14:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65364	10/24/23 04:28	CH	EET MID

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-34716-3
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/24/23 15:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65418	10/24/23 15:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			65376	10/22/23 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 18:12	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65238	10/20/23 14:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65364	10/24/23 04:35	CH	EET MID

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-34716-4
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/24/23 18:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65418	10/24/23 18:41	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-34716-4
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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			65376	10/22/23 18:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 18:34	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	65365	10/24/23 05:28	CH	EET MID

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-34716-5
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/24/23 19:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65418	10/24/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			65376	10/22/23 18:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 18:57	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65365	10/24/23 12:39	CH	EET MID

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-34716-6
Matrix: Solid
Date Collected: 10/16/23 00:00
Date Received: 10/20/23 12:41

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	65370	10/23/23 14:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65442	10/24/23 19:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			65418	10/24/23 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			65376	10/22/23 19:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	65276	10/21/23 16:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65282	10/22/23 19:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	65239	10/20/23 14:48	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	65365	10/24/23 12:45	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Asio Flowline

Job ID: 880-34716-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34716-1	H-1 (0-0.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34716-2	H-2 (0-0.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34716-3	H-3 (0-0.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34716-4	H-4 (0-0.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34716-5	H-5 (0-0.5')	Solid	10/16/23 00:00	10/20/23 12:41
880-34716-6	H-6 (0-0.5')	Solid	10/16/23 00:00	10/20/23 12:41

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10/25/2023

Page 1 of 1

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address.	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name	Asio Flowline	Turn Around	
Project Number	2099	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice	(Yes) No
Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals	Yes No (N/A)	Correction Factor	+2.0
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	5.4
Total Containers.		Corrected Temperature	2.6

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3. HN; H_2S0_4 H_2; NaOH Na; H_3PO_4. HP; $NaHSO_4$. NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
H-1 (0-0 5')	10/16/2023		X		G	1		X	X	X	
H-2 (0-0.5')	10/16/2023		X		G	1		X	X	X	
H-3 (0-0.5')	10/16/2023		X		G	1		X	X	X	
H-4 (0-0.5')	10/16/2023		X		G	1		X	X	X	
H-5 (0-0.5')	10/16/2023		X		G	1		X	X	X	
H-6 (0-0 5')	10/16/2023		X		G	1		X	X	X	

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by: (Signature)	Date/Time
Conner Moehring	10/20/23 1241		

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Received by OCD: 9/5/2024 9:00:34 AM

Released to Imaging: 9/23/2024 11:17:35 AM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-34716-1
SDG Number: Eddy County, New Mexico

Login Number: 34716
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 12/11/2023 11:18:46 AM

JOB DESCRIPTION

Asio Flowline (07.16.23)
Eddy County New Mexico

JOB NUMBER

880-36589-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 9/23/2024 11:17:33 AM

my EOL

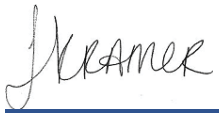
Eurofins Midland

Job Notes

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

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

Authorization



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12/11/2023 11:18:46 AM

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

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Laboratory Job ID: 880-36589-1
SDG: Eddy County New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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, 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.
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.
F2	MS/MSD RPD 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: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Job ID: 880-36589-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-36589-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 12/6/2023 1:18 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 -4.4°C

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-68429 and 880-68522 and analytical batch 880-68564 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-68564 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-68564/33).

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-68522 and analytical batch 880-68564 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-36589-1), T-1 (2') (880-36589-3), T-2 (1.5') (880-36589-6), T-3 (0-1') (880-36589-9) and T-3 (1.5') (880-36589-10). 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: T-3 (2') (880-36589-11), T-4 (0-1') (880-36589-14), T-4 (1.5') (880-36589-15), T-4 (3) (880-36589-17) and T-5 (1.5') (880-36589-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-68521/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-36589-A-21-A MS) and (880-36589-A-21-B MSD). 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: T-5 (3') (880-36589-21), T-5 (5') (880-36589-23) and T-6 (0-1') (880-36589-24). 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: T-6 (3') (880-36589-27), T-7 (1.5') (880-36589-30), T-7 (2') (880-36589-31), T-8 (0-1') (880-36589-33) and T-8 (1.5') (880-36589-34). 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 880-68519 and analytical batch 880-68562 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.

Case Narrative

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Job ID: 880-36589-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-68521 and analytical batch 880-68562 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68548 and analytical batch 880-68556 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-1 (0-1') (880-36589-1), T-1 (1.5') (880-36589-2), T-1 (2') (880-36589-3), T-2 (0-1') (880-36589-5), T-2 (1.5') (880-36589-6), T-2 (2') (880-36589-7), T-3 (0-1') (880-36589-9), T-3 (4') (880-36589-13), T-5 (0-1') (880-36589-18), (880-36589-A-1-H MS) and (880-36589-A-1-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68548 and analytical batch 880-68556 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 surrogate recovery for the blank associated with preparation batch 880-68549 and analytical batch 880-68555 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68551 and analytical batch 880-68637 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-9 (6') (880-36589-43), T-9 (7') (880-36589-44), (880-36589-A-41-F MS) and (880-36589-A-41-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68551 and analytical batch 880-68637 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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-68501 and 880-68501 and analytical batch 880-68589 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68523 and 880-68523 and analytical batch 880-68610 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-36589-1
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		12/06/23 13:51	12/07/23 12:57	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		12/06/23 13:51	12/07/23 12:57	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/06/23 13:51	12/07/23 12:57	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		12/06/23 13:51	12/07/23 12:57	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		12/06/23 13:51	12/07/23 12:57	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		12/06/23 13:51	12/07/23 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*12/06/23 13:51*	*12/07/23 12:57*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/06/23 13:51*	*12/07/23 12:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/07/23 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	<50.5	U	50.5		mg/Kg			12/07/23 10:24	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	<50.5	U	50.5		mg/Kg		12/06/23 17:23	12/07/23 10:24	1
Diesel Range Organics (Over C10-C28)	<50.5	U F1	50.5		mg/Kg		12/06/23 17:23	12/07/23 10:24	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/06/23 17:23	12/07/23 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 10:24*	*1*
o-Terphenyl	*124*		*70 - 130*	*12/06/23 17:23*	*12/07/23 10:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		4.98		mg/Kg			12/08/23 09:43	1

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-36589-2
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 13:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 13:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 13:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/23 13:51	12/07/23 13:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 13:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/23 13:51	12/07/23 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*12/06/23 13:51*	*12/07/23 13:23*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/06/23 13:51*	*12/07/23 13:23*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-1 (1.5')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/07/23 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/07/23 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/06/23 17:23	12/07/23 11:28	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/06/23 17:23	12/07/23 11:28	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/23 17:23	12/07/23 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 11:28*	*1*
o-Terphenyl	*114*		*70 - 130*	*12/06/23 17:23*	*12/07/23 11:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**425**		4.96		mg/Kg			12/08/23 10:00	1

Client Sample ID: T-1 (2')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 13:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 13:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 13:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/06/23 13:51	12/07/23 13:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 13:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/06/23 13:51	12/07/23 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*12/06/23 13:51*	*12/07/23 13:49*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/06/23 13:51*	*12/07/23 13:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/07/23 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			12/07/23 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 11:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 11:50	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-1 (2')

Lab Sample ID: 880-36589-3
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 11:50*	*1*
o-Terphenyl	*117*		*70 - 130*	*12/06/23 17:23*	*12/07/23 11:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**525**		5.00		mg/Kg			12/08/23 10:05	1

Client Sample ID: T-1 (3')

Lab Sample ID: 880-36589-4
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 14:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 14:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 14:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 14:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 14:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/06/23 13:51*	*12/07/23 14:15*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/06/23 13:51*	*12/07/23 14:15*	*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			12/07/23 14:15	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			12/07/23 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 12:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 12:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*12/06/23 17:23*	*12/07/23 12:11*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/06/23 17:23*	*12/07/23 12:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**406**		4.99		mg/Kg			12/08/23 10:11	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-36589-5
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 14:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:51	12/07/23 14:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:51	12/07/23 14:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/06/23 13:51	12/07/23 14:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:51	12/07/23 14:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/06/23 13:51	12/07/23 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/06/23 13:51*	*12/07/23 14:41*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/06/23 13:51*	*12/07/23 14:41*	*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			12/07/23 14:41	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			12/07/23 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 12:33	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 12:33	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 12:33*	*1*
o-Terphenyl	*115*		*70 - 130*	*12/06/23 17:23*	*12/07/23 12:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**277**		4.95		mg/Kg			12/08/23 10:16	1

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-36589-6
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 15:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 15:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 15:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/23 13:51	12/07/23 15:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 15:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/23 13:51	12/07/23 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/06/23 13:51*	*12/07/23 15:07*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*12/06/23 13:51*	*12/07/23 15:07*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-36589-6
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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			12/07/23 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			12/07/23 12:55	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	<50.1	U	50.1		mg/Kg		12/06/23 17:23	12/07/23 12:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/06/23 17:23	12/07/23 12:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/06/23 17:23	12/07/23 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 12:55*	*1*
o-Terphenyl	*128*		*70 - 130*	*12/06/23 17:23*	*12/07/23 12:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**425**		4.97		mg/Kg			12/08/23 10:34	1

Client Sample ID: T-2 (2')

Lab Sample ID: 880-36589-7
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 15:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 15:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 15:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/06/23 13:51	12/07/23 15:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 15:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/06/23 13:51	12/07/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/06/23 13:51*	*12/07/23 15:33*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/06/23 13:51*	*12/07/23 15:33*	*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			12/07/23 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/23 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	<50.0	U	50.0		mg/Kg		12/06/23 17:23	12/07/23 13:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 17:23	12/07/23 13:16	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-2 (2')

Lab Sample ID: 880-36589-7
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 17:23	12/07/23 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 13:16*	*1*
o-Terphenyl	*123*		*70 - 130*	*12/06/23 17:23*	*12/07/23 13:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**545**		5.00		mg/Kg			12/08/23 10:39	1

Client Sample ID: T-2 (3')

Lab Sample ID: 880-36589-8
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 15:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 15:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 15:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/23 13:51	12/07/23 15:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 15:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/23 13:51	12/07/23 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/06/23 13:51*	*12/07/23 15:59*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*12/06/23 13:51*	*12/07/23 15:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/07/23 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			12/07/23 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		12/06/23 17:23	12/07/23 13:38	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/06/23 17:23	12/07/23 13:38	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/06/23 17:23	12/07/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*12/06/23 17:23*	*12/07/23 13:38*	*1*
o-Terphenyl	*108*		*70 - 130*	*12/06/23 17:23*	*12/07/23 13:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**399**		4.99		mg/Kg			12/08/23 10:45	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-3 (0-1')

Lab Sample ID: 880-36589-9
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 16:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 16:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 16:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/23 13:51	12/07/23 16:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 16:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/23 13:51	12/07/23 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*685*	*S1+*	*70 - 130*	*12/06/23 13:51*	*12/07/23 16:25*	*1*
1,4-Difluorobenzene (Surr)	*10*	*S1-*	*70 - 130*	*12/06/23 13:51*	*12/07/23 16:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/07/23 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.5**		50.3		mg/Kg			12/07/23 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 14:00	1
Diesel Range Organics (Over C10-C28)	**51.5**		50.3		mg/Kg		12/06/23 17:23	12/07/23 14:00	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 14:00*	*1*
o-Terphenyl	*123*		*70 - 130*	*12/06/23 17:23*	*12/07/23 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37500**		249		mg/Kg			12/08/23 10:50	50

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-36589-10
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 16:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 16:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 16:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 16:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 16:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*12/06/23 13:51*	*12/07/23 16:51*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*12/06/23 13:51*	*12/07/23 16:51*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-3 (1.5')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-10
Matrix: Solid

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			12/07/23 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			12/07/23 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		12/06/23 17:23	12/07/23 14:21	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		12/06/23 17:23	12/07/23 14:21	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		12/06/23 17:23	12/07/23 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*12/06/23 17:23*	*12/07/23 14:21*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/06/23 17:23*	*12/07/23 14:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7760**		99.4		mg/Kg			12/08/23 10:56	20

Client Sample ID: T-3 (2')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-11
Matrix: Solid

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		12/06/23 13:51	12/07/23 18:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:51	12/07/23 18:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:51	12/07/23 18:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/06/23 13:51	12/07/23 18:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:51	12/07/23 18:35	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/06/23 13:51	12/07/23 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*12/06/23 13:51*	*12/07/23 18:35*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*12/06/23 13:51*	*12/07/23 18:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/07/23 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/23 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 15:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 15:06	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-3 (2')

Lab Sample ID: 880-36589-11
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*12/06/23 17:23*	*12/07/23 15:06*	*1*
o-Terphenyl	*109*		*70 - 130*	*12/06/23 17:23*	*12/07/23 15:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5030**	**F1**	99.2		mg/Kg			12/08/23 11:02	20

Client Sample ID: T-3 (3')

Lab Sample ID: 880-36589-12
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 19:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 19:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 19:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 19:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*12/06/23 13:51*	*12/07/23 19:01*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/06/23 13:51*	*12/07/23 19:01*	*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			12/07/23 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			12/07/23 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		12/06/23 17:23	12/07/23 15:27	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/06/23 17:23	12/07/23 15:27	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/06/23 17:23	12/07/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*12/06/23 17:23*	*12/07/23 15:27*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/06/23 17:23*	*12/07/23 15:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**796**		50.5		mg/Kg			12/08/23 11:19	10

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-3 (4')

Lab Sample ID: 880-36589-13
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 19:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 19:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 19:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/23 13:51	12/07/23 19:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 19:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/23 13:51	12/07/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*12/06/23 13:51*	*12/07/23 19:27*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/06/23 13:51*	*12/07/23 19:27*	*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			12/07/23 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/23 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 15:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 15:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 15:48*	*1*
o-Terphenyl	*113*		*70 - 130*	*12/06/23 17:23*	*12/07/23 15:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**159**		5.00		mg/Kg			12/08/23 11:24	1

Client Sample ID: T-4 (0-1')

Lab Sample ID: 880-36589-14
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 19:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 19:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 19:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/06/23 13:51	12/07/23 19:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 19:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/06/23 13:51	12/07/23 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*49*	*S1-*	*70 - 130*	*12/06/23 13:51*	*12/07/23 19:53*	*1*
1,4-Difluorobenzene (Surr)	*48*	*S1-*	*70 - 130*	*12/06/23 13:51*	*12/07/23 19:53*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-4 (0-1')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-14
Matrix: Solid

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			12/07/23 19:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/07/23 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 16:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 16:10	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/23 17:23	12/07/23 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*12/06/23 17:23*	*12/07/23 16:10*	*1*
o-Terphenyl	*97*		*70 - 130*	*12/06/23 17:23*	*12/07/23 16:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2210**		50.2		mg/Kg			12/08/23 11:41	10

Client Sample ID: T-4 (1.5')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 20:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 20:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 20:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/23 13:51	12/07/23 20:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 20:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/23 13:51	12/07/23 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*12/06/23 13:51*	*12/07/23 20:19*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/06/23 13:51*	*12/07/23 20:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/07/23 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			12/07/23 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/06/23 17:23	12/07/23 16:31	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/06/23 17:23	12/07/23 16:31	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-36589-15
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/06/23 17:23	12/07/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*12/06/23 17:23*	*12/07/23 16:31*	*1*
o-Terphenyl	*97*		*70 - 130*	*12/06/23 17:23*	*12/07/23 16:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**332**		4.99		mg/Kg			12/08/23 11:47	1

Client Sample ID: T-4 (2')

Lab Sample ID: 880-36589-16
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 20:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 20:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 20:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/23 13:51	12/07/23 20:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:51	12/07/23 20:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/23 13:51	12/07/23 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*12/06/23 13:51*	*12/07/23 20:45*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/06/23 13:51*	*12/07/23 20:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/07/23 20:45	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			12/07/23 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 16:53	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 16:53	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*12/06/23 17:23*	*12/07/23 16:53*	*1*
o-Terphenyl	*102*		*70 - 130*	*12/06/23 17:23*	*12/07/23 16:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.3**		4.95		mg/Kg			12/08/23 11:53	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-4 (3)

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-17
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		12/06/23 13:51	12/07/23 21:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 21:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 21:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 21:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 21:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*12/06/23 13:51*	*12/07/23 21:11*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/06/23 13:51*	*12/07/23 21:11*	*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			12/07/23 21:11	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			12/07/23 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 17:14	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 17:14	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/06/23 17:23	12/07/23 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*12/06/23 17:23*	*12/07/23 17:14*	*1*
o-Terphenyl	*100*		*70 - 130*	*12/06/23 17:23*	*12/07/23 17:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**131**		4.97		mg/Kg			12/08/23 11:58	1

Client Sample ID: T-5 (0-1')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-18
Matrix: Solid

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		12/06/23 13:51	12/07/23 21:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:51	12/07/23 21:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:51	12/07/23 21:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/06/23 13:51	12/07/23 21:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:51	12/07/23 21:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/06/23 13:51	12/07/23 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*12/06/23 13:51*	*12/07/23 21:37*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/06/23 13:51*	*12/07/23 21:37*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-5 (0-1')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-18
Matrix: Solid

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			12/07/23 21:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.0**		50.1		mg/Kg			12/07/23 17:35	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	<50.1	U	50.1		mg/Kg		12/06/23 17:23	12/07/23 17:35	1
Diesel Range Organics (Over C10-C28)	**85.0**		50.1		mg/Kg		12/06/23 17:23	12/07/23 17:35	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/06/23 17:23	12/07/23 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 17:35*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 17:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20800**		250		mg/Kg			12/08/23 12:04	50

Client Sample ID: T-5 (1.5')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-19
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		12/06/23 13:51	12/07/23 22:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 22:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 22:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 22:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:51	12/07/23 22:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:51	12/07/23 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*12/06/23 13:51*	*12/07/23 22:03*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/06/23 13:51*	*12/07/23 22:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/07/23 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			12/07/23 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/06/23 17:23	12/07/23 17:57	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/06/23 17:23	12/07/23 17:57	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-5 (1.5')

Lab Sample ID: 880-36589-19
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/06/23 17:23	12/07/23 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*12/06/23 17:23*	*12/07/23 17:57*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/06/23 17:23*	*12/07/23 17:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9720**		99.6		mg/Kg			12/08/23 12:09	20

Client Sample ID: T-5 (2')

Lab Sample ID: 880-36589-20
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:51	12/07/23 22:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 22:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 22:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/23 13:51	12/07/23 22:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 22:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/23 13:51	12/07/23 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/06/23 13:51*	*12/07/23 22:29*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*12/06/23 13:51*	*12/07/23 22:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/07/23 22:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/07/23 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/06/23 17:23	12/07/23 18:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/06/23 17:23	12/07/23 18:18	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/23 17:23	12/07/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*12/06/23 17:23*	*12/07/23 18:18*	*1*
o-Terphenyl	*115*		*70 - 130*	*12/06/23 17:23*	*12/07/23 18:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11800**		101		mg/Kg			12/08/23 12:15	20

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-5 (3')

Lab Sample ID: 880-36589-21
Date Collected: 12/05/23 00:00
Matrix: Solid
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		12/06/23 13:54	12/08/23 02:23	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		12/06/23 13:54	12/08/23 02:23	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		12/06/23 13:54	12/08/23 02:23	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		12/06/23 13:54	12/08/23 02:23	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		12/06/23 13:54	12/08/23 02:23	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		12/06/23 13:54	12/08/23 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*12/06/23 13:54*	*12/08/23 02:23*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/06/23 13:54*	*12/08/23 02:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/08/23 02:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			12/07/23 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 10:24	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 10:24	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*12/06/23 17:26*	*12/07/23 10:24*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/06/23 17:26*	*12/07/23 10:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9180**		101		mg/Kg			12/07/23 20:02	20

Client Sample ID: T-5 (4')

Lab Sample ID: 880-36589-22
Date Collected: 12/05/23 00:00
Matrix: Solid
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 02:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 02:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 02:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/23 13:54	12/08/23 02:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 02:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/23 13:54	12/08/23 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/06/23 13:54*	*12/08/23 02:49*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*12/06/23 13:54*	*12/08/23 02:49*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-5 (4')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/08/23 02:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			12/07/23 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 11:28	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 11:28	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*12/06/23 17:26*	*12/07/23 11:28*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/06/23 17:26*	*12/07/23 11:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2120**		100		mg/Kg			12/07/23 20:21	20

Client Sample ID: T-5 (5')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 03:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 03:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 03:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/06/23 13:54	12/08/23 03:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 03:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/06/23 13:54	12/08/23 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*12/06/23 13:54*	*12/08/23 03:16*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*12/06/23 13:54*	*12/08/23 03:16*	*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			12/08/23 03:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			12/07/23 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/06/23 17:26	12/07/23 11:50	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/06/23 17:26	12/07/23 11:50	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-5 (5')

Lab Sample ID: 880-36589-23
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/06/23 17:26	12/07/23 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/06/23 17:26*	*12/07/23 11:50*	*1*
o-Terphenyl	*95*		*70 - 130*	*12/06/23 17:26*	*12/07/23 11:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		4.98		mg/Kg			12/07/23 20:28	1

Client Sample ID: T-6 (0-1')

Lab Sample ID: 880-36589-24
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 03:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 03:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 03:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 03:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 03:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*12/06/23 13:54*	*12/08/23 03:42*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/06/23 13:54*	*12/08/23 03:42*	*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			12/08/23 03:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.4**		49.7		mg/Kg			12/07/23 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/06/23 17:26	12/07/23 12:11	1
Diesel Range Organics (Over C10-C28)	**57.4**		49.7		mg/Kg		12/06/23 17:26	12/07/23 12:11	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/23 17:26	12/07/23 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/06/23 17:26*	*12/07/23 12:11*	*1*
o-Terphenyl	*103*		*70 - 130*	*12/06/23 17:26*	*12/07/23 12:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5600**		99.2		mg/Kg			12/07/23 20:34	20

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-6 (1.5')

Lab Sample ID: 880-36589-25
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 04:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:54	12/08/23 04:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:54	12/08/23 04:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/06/23 13:54	12/08/23 04:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:54	12/08/23 04:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/06/23 13:54	12/08/23 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/06/23 13:54*	*12/08/23 04:08*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/06/23 13:54*	*12/08/23 04:08*	*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			12/08/23 04:08	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			12/07/23 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 12:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 12:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*12/06/23 17:26*	*12/07/23 12:33*	*1*
o-Terphenyl	*121*		*70 - 130*	*12/06/23 17:26*	*12/07/23 12:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2800**		99.6		mg/Kg			12/07/23 20:41	20

Client Sample ID: T-6 (2')

Lab Sample ID: 880-36589-26
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 04:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/23 13:54	12/08/23 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 04:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/23 13:54	12/08/23 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/06/23 13:54*	*12/08/23 04:34*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/06/23 13:54*	*12/08/23 04:34*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-6 (2')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-26
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/08/23 04:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			12/07/23 12:55	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	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 12:55	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 12:55	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*12/06/23 17:26*	*12/07/23 12:55*	*1*
o-Terphenyl	*118*		*70 - 130*	*12/06/23 17:26*	*12/07/23 12:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**547**		25.0		mg/Kg			12/07/23 21:00	5

Client Sample ID: T-6 (3')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 05:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 05:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 05:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/06/23 13:54	12/08/23 05:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 05:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/06/23 13:54	12/08/23 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*12/06/23 13:54*	*12/08/23 05:00*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*12/06/23 13:54*	*12/08/23 05:00*	*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			12/08/23 05:00	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			12/07/23 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	<50.1	U	50.1		mg/Kg		12/06/23 17:26	12/07/23 13:16	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/06/23 17:26	12/07/23 13:16	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-6 (3')

Lab Sample ID: 880-36589-27
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/06/23 17:26	12/07/23 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/06/23 17:26*	*12/07/23 13:16*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/06/23 17:26*	*12/07/23 13:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.5**		5.00		mg/Kg			12/07/23 21:07	1

Client Sample ID: T-6 (4')

Lab Sample ID: 880-36589-28
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 05:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 05:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 05:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/23 13:54	12/08/23 05:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 05:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/23 13:54	12/08/23 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/06/23 13:54*	*12/08/23 05:26*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*12/06/23 13:54*	*12/08/23 05:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/08/23 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			12/07/23 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 13:38	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 13:38	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/06/23 17:26*	*12/07/23 13:38*	*1*
o-Terphenyl	*96*		*70 - 130*	*12/06/23 17:26*	*12/07/23 13:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**291**		4.97		mg/Kg			12/07/23 21:13	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-7 (0-1')

Lab Sample ID: 880-36589-29
Date Collected: 12/05/23 00:00
Matrix: Solid
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 05:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 05:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 05:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/23 13:54	12/08/23 05:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 05:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/23 13:54	12/08/23 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*12/06/23 13:54*	*12/08/23 05:52*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/06/23 13:54*	*12/08/23 05:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/08/23 05:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			12/07/23 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 14:00	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 14:00	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/06/23 17:26*	*12/07/23 14:00*	*1*
o-Terphenyl	*98*		*70 - 130*	*12/06/23 17:26*	*12/07/23 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.9**		4.98		mg/Kg			12/07/23 21:20	1

Client Sample ID: T-7 (1.5')

Lab Sample ID: 880-36589-30
Date Collected: 12/05/23 00:00
Matrix: Solid
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 06:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 06:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 06:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 06:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 06:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*12/06/23 13:54*	*12/08/23 06:18*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*12/06/23 13:54*	*12/08/23 06:18*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-7 (1.5')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-30
Matrix: Solid

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			12/08/23 06:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			12/07/23 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		12/06/23 17:26	12/07/23 14:21	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/06/23 17:26	12/07/23 14:21	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/06/23 17:26	12/07/23 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/06/23 17:26*	*12/07/23 14:21*	*1*
o-Terphenyl	*94*		*70 - 130*	*12/06/23 17:26*	*12/07/23 14:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		4.97		mg/Kg			12/07/23 21:26	1

Client Sample ID: T-7 (2')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-31
Matrix: Solid

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		12/06/23 13:54	12/08/23 08:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:54	12/08/23 08:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:54	12/08/23 08:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/06/23 13:54	12/08/23 08:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:54	12/08/23 08:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/06/23 13:54	12/08/23 08:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*12/06/23 13:54*	*12/08/23 08:04*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*12/06/23 13:54*	*12/08/23 08:04*	*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			12/08/23 08:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/23 15:06	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		12/06/23 17:26	12/07/23 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 15:06	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-7 (2')

Lab Sample ID: 880-36589-31
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/06/23 17:26*	*12/07/23 15:06*	*1*
o-Terphenyl	*97*		*70 - 130*	*12/06/23 17:26*	*12/07/23 15:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**136**		4.96		mg/Kg			12/07/23 21:33	1

Client Sample ID: T-7 (3')

Lab Sample ID: 880-36589-32
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 08:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 08:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 08:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 08:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 08:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*12/06/23 13:54*	*12/08/23 08:30*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*12/06/23 13:54*	*12/08/23 08:30*	*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			12/08/23 08:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/07/23 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/06/23 17:26	12/07/23 15:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/06/23 17:26	12/07/23 15:27	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/23 17:26	12/07/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*12/06/23 17:26*	*12/07/23 15:27*	*1*
o-Terphenyl	*120*		*70 - 130*	*12/06/23 17:26*	*12/07/23 15:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.5**		4.95		mg/Kg			12/07/23 21:52	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-8 (0-1')

Lab Sample ID: 880-36589-33
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 08:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 08:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 08:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/23 13:54	12/08/23 08:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 08:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/23 13:54	12/08/23 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*167*	*S1+*	*70 - 130*	*12/06/23 13:54*	*12/08/23 08:57*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*12/06/23 13:54*	*12/08/23 08:57*	*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			12/08/23 08:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			12/07/23 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 15:48	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 15:48	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/06/23 17:26*	*12/07/23 15:48*	*1*
o-Terphenyl	*98*		*70 - 130*	*12/06/23 17:26*	*12/07/23 15:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5230**		101		mg/Kg			12/07/23 21:59	20

Client Sample ID: T-8 (1.5')

Lab Sample ID: 880-36589-34
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 09:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 09:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 09:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/06/23 13:54	12/08/23 09:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 09:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/06/23 13:54	12/08/23 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*12/06/23 13:54*	*12/08/23 09:23*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*12/06/23 13:54*	*12/08/23 09:23*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-8 (1.5')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-34
Matrix: Solid

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			12/08/23 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			12/07/23 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 16:10	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 16:10	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/06/23 17:26	12/07/23 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/06/23 17:26*	*12/07/23 16:10*	*1*
o-Terphenyl	*103*		*70 - 130*	*12/06/23 17:26*	*12/07/23 16:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4120**		100		mg/Kg			12/07/23 22:19	20

Client Sample ID: T-8 (2')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 09:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 09:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 09:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/23 13:54	12/08/23 09:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 09:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/23 13:54	12/08/23 09:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/06/23 13:54*	*12/08/23 09:50*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/06/23 13:54*	*12/08/23 09:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/08/23 09:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			12/07/23 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		12/06/23 17:26	12/07/23 16:31	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/06/23 17:26	12/07/23 16:31	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-8 (2')

Lab Sample ID: 880-36589-35
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/06/23 17:26	12/07/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/06/23 17:26*	*12/07/23 16:31*	*1*
o-Terphenyl	*96*		*70 - 130*	*12/06/23 17:26*	*12/07/23 16:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**622**		24.9		mg/Kg			12/07/23 22:25	5

Client Sample ID: T-8 (3')

Lab Sample ID: 880-36589-36
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 10:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 10:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 10:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/23 13:54	12/08/23 10:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/23 13:54	12/08/23 10:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/23 13:54	12/08/23 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/06/23 13:54*	*12/08/23 10:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/06/23 13:54*	*12/08/23 10:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/08/23 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/23 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 16:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 16:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*12/06/23 17:26*	*12/07/23 16:53*	*1*
o-Terphenyl	*120*		*70 - 130*	*12/06/23 17:26*	*12/07/23 16:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.9**		4.97		mg/Kg			12/07/23 22:32	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-9 (0-1')

Lab Sample ID: 880-36589-37
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 10:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 10:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 10:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 10:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 10:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 10:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/06/23 13:54*	*12/08/23 10:42*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/06/23 13:54*	*12/08/23 10:42*	*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			12/08/23 10:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			12/07/23 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 17:14	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 17:14	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/06/23 17:26*	*12/07/23 17:14*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/06/23 17:26*	*12/07/23 17:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10900**		99.0		mg/Kg			12/07/23 22:38	20

Client Sample ID: T-9 (1.5')

Lab Sample ID: 880-36589-38
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 11:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:54	12/08/23 11:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:54	12/08/23 11:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/06/23 13:54	12/08/23 11:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/06/23 13:54	12/08/23 11:09	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/06/23 13:54	12/08/23 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*12/06/23 13:54*	*12/08/23 11:09*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/06/23 13:54*	*12/08/23 11:09*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-9 (1.5')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-38
Matrix: Solid

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			12/08/23 11:09	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			12/07/23 17:35	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	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 17:35	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 17:35	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/06/23 17:26	12/07/23 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/06/23 17:26*	*12/07/23 17:35*	*1*
o-Terphenyl	*102*		*70 - 130*	*12/06/23 17:26*	*12/07/23 17:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4460**		99.0		mg/Kg			12/07/23 22:45	20

Client Sample ID: T-9 (2')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-39
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		12/06/23 13:54	12/08/23 11:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 11:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 11:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 11:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/23 13:54	12/08/23 11:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/23 13:54	12/08/23 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/06/23 13:54*	*12/08/23 11:35*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*12/06/23 13:54*	*12/08/23 11:35*	*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			12/08/23 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			12/07/23 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		12/06/23 17:26	12/07/23 17:57	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/06/23 17:26	12/07/23 17:57	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-9 (2')

Lab Sample ID: 880-36589-39
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/06/23 17:26	12/07/23 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/06/23 17:26*	*12/07/23 17:57*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/06/23 17:26*	*12/07/23 17:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6260**		99.2		mg/Kg			12/07/23 22:51	20

Client Sample ID: T-9 (3')

Lab Sample ID: 880-36589-40
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/06/23 13:54	12/08/23 12:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 12:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/23 13:54	12/08/23 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 12:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/23 13:54	12/08/23 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/06/23 13:54*	*12/08/23 12:01*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/06/23 13:54*	*12/08/23 12:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/08/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/07/23 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 18:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 18:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/06/23 17:26*	*12/07/23 18:18*	*1*
o-Terphenyl	*106*		*70 - 130*	*12/06/23 17:26*	*12/07/23 18:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9300**		100		mg/Kg			12/07/23 22:58	20

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-9 (4')

Lab Sample ID: 880-36589-41
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/07/23 13:56	12/08/23 00:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/07/23 13:56	12/08/23 00:18	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/07/23 13:56	12/08/23 00:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/07/23 13:56	12/08/23 00:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/07/23 13:56	12/08/23 00:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/07/23 13:56	12/08/23 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/07/23 13:56*	*12/08/23 00:18*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/07/23 13:56*	*12/08/23 00:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/08/23 00:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			12/08/23 10:52	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	<49.6	U	49.6		mg/Kg		12/06/23 17:39	12/08/23 10:52	1
Diesel Range Organics (Over C10-C28)	<49.6	U F1	49.6		mg/Kg		12/06/23 17:39	12/08/23 10:52	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/06/23 17:39	12/08/23 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*12/06/23 17:39*	*12/08/23 10:52*	*1*
o-Terphenyl	*110*		*70 - 130*	*12/06/23 17:39*	*12/08/23 10:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8840**		99.0		mg/Kg			12/07/23 18:03	20

Client Sample ID: T-9 (5')

Lab Sample ID: 880-36589-42
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/07/23 13:56	12/08/23 00:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/07/23 13:56	12/08/23 00:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/07/23 13:56	12/08/23 00:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/07/23 13:56	12/08/23 00:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/07/23 13:56	12/08/23 00:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/07/23 13:56	12/08/23 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/07/23 13:56*	*12/08/23 00:38*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*12/07/23 13:56*	*12/08/23 00:38*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-9 (5')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-42
Matrix: Solid

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			12/08/23 00:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			12/08/23 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/06/23 17:39	12/08/23 11:57	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/06/23 17:39	12/08/23 11:57	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/06/23 17:39	12/08/23 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*12/06/23 17:39*	*12/08/23 11:57*	*1*
o-Terphenyl	*115*		*70 - 130*	*12/06/23 17:39*	*12/08/23 11:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**664**		50.0		mg/Kg			12/07/23 18:11	10

Client Sample ID: T-9 (6')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-43
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/07/23 13:56	12/08/23 00:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/07/23 13:56	12/08/23 00:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/07/23 13:56	12/08/23 00:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/07/23 13:56	12/08/23 00:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/07/23 13:56	12/08/23 00:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/07/23 13:56	12/08/23 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/07/23 13:56*	*12/08/23 00:59*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*12/07/23 13:56*	*12/08/23 00:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/08/23 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/08/23 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/06/23 17:39	12/08/23 12:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/06/23 17:39	12/08/23 12:18	1

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-9 (6')

Lab Sample ID: 880-36589-43
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/23 17:39	12/08/23 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*12/06/23 17:39*	*12/08/23 12:18*	*1*
o-Terphenyl	*129*		*70 - 130*	*12/06/23 17:39*	*12/08/23 12:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.7**		4.98		mg/Kg			12/08/23 09:25	1

Client Sample ID: T-9 (7')

Lab Sample ID: 880-36589-44
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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		12/07/23 13:56	12/08/23 01:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/07/23 13:56	12/08/23 01:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/07/23 13:56	12/08/23 01:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/07/23 13:56	12/08/23 01:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/07/23 13:56	12/08/23 01:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/07/23 13:56	12/08/23 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/07/23 13:56*	*12/08/23 01:19*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*12/07/23 13:56*	*12/08/23 01:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/08/23 01:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/08/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/06/23 17:39	12/08/23 12:40	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/06/23 17:39	12/08/23 12:40	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/23 17:39	12/08/23 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*12/06/23 17:39*	*12/08/23 12:40*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*12/06/23 17:39*	*12/08/23 12:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.09**		4.99		mg/Kg			12/08/23 09:33	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-36589-1	T-1 (0-1')	132 S1+	93										
880-36589-1 MS	T-1 (0-1')	84	91										
880-36589-1 MSD	T-1 (0-1')	101	127										
880-36589-2	T-1 (1.5')	72	110										
880-36589-3	T-1 (2')	139 S1+	106										
880-36589-4	T-1 (3')	79	105										
880-36589-5	T-2 (0-1')	113	92										
880-36589-6	T-2 (1.5')	88	64 S1-										
880-36589-7	T-2 (2')	103	85										
880-36589-8	T-2 (3')	115	76										
880-36589-9	T-3 (0-1')	685 S1+	10 S1-										
880-36589-10	T-3 (1.5')	63 S1-	116										
880-36589-11	T-3 (2')	131 S1+	87										
880-36589-12	T-3 (3')	84	95										
880-36589-13	T-3 (4')	123	104										
880-36589-14	T-4 (0-1')	49 S1-	48 S1-										
880-36589-15	T-4 (1.5')	131 S1+	100										
880-36589-16	T-4 (2')	126	108										
880-36589-17	T-4 (3)	61 S1-	102										
880-36589-18	T-5 (0-1')	71	100										
880-36589-19	T-5 (1.5')	69 S1-	88										
880-36589-20	T-5 (2')	89	76										
880-36589-21	T-5 (3')	65 S1-	84										
880-36589-21 MS	T-5 (3')	116	48 S1-										
880-36589-21 MSD	T-5 (3')	157 S1+	147 S1+										
880-36589-22	T-5 (4')	93	75										
880-36589-23	T-5 (5')	139 S1+	113										
880-36589-24	T-6 (0-1')	67 S1-	99										
880-36589-25	T-6 (1.5')	108	85										
880-36589-26	T-6 (2')	99	97										
880-36589-27	T-6 (3')	134 S1+	111										
880-36589-28	T-6 (4')	110	118										
880-36589-29	T-7 (0-1')	72	108										
880-36589-30	T-7 (1.5')	133 S1+	82										
880-36589-31	T-7 (2')	123	69 S1-										
880-36589-32	T-7 (3')	74	113										
880-36589-33	T-8 (0-1')	167 S1+	114										
880-36589-34	T-8 (1.5')	160 S1+	109										
880-36589-35	T-8 (2')	87	84										
880-36589-36	T-8 (3')	88	94										
880-36589-37	T-9 (0-1')	94	105										
880-36589-38	T-9 (1.5')	83	90										
880-36589-39	T-9 (2')	107	75										
880-36589-40	T-9 (3')	93	107										
880-36589-41	T-9 (4')	85	105										
880-36589-41 MS	T-9 (4')	102	113										
880-36589-41 MSD	T-9 (4')	99	111										
880-36589-42	T-9 (5')	97	113										
880-36589-43	T-9 (6')	97	114										

Surrogate Summary

Client: Carmona Resources
Job ID: 880-36589-1
Project/Site: Asio Flowline (07.16.23)
SDG: Eddy County New Mexico

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

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-36589-44	T-9 (7')	102	116
LCS 880-68519/1-A	Lab Control Sample	116	102
LCS 880-68521/1-A	Lab Control Sample	159 S1+	129
LCS 880-68522/1-A	Lab Control Sample	103	102
LCSD 880-68519/2-A	Lab Control Sample Dup	105	85
LCSD 880-68521/2-A	Lab Control Sample Dup	105	71
LCSD 880-68522/2-A	Lab Control Sample Dup	92	111
MB 880-68429/5-A	Method Blank	117	158 S1+
MB 880-68519/5-A	Method Blank	71	100
MB 880-68521/5-A	Method Blank	77	117
MB 880-68522/5-B	Method Blank	123	158 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-36589-1	T-1 (0-1')	145 S1+	124
880-36589-1 MS	T-1 (0-1')	146 S1+	103
880-36589-1 MSD	T-1 (0-1')	171 S1+	118
880-36589-2	T-1 (1.5')	132 S1+	114
880-36589-3	T-1 (2')	139 S1+	117
880-36589-4	T-1 (3')	121	104
880-36589-5	T-2 (0-1')	132 S1+	115
880-36589-6	T-2 (1.5')	146 S1+	128
880-36589-7	T-2 (2')	143 S1+	123
880-36589-8	T-2 (3')	129	108
880-36589-9	T-3 (0-1')	142 S1+	123
880-36589-10	T-3 (1.5')	122	107
880-36589-11	T-3 (2')	124	109
880-36589-12	T-3 (3')	127	107
880-36589-13	T-3 (4')	134 S1+	113
880-36589-14	T-4 (0-1')	125	97
880-36589-15	T-4 (1.5')	121	97
880-36589-16	T-4 (2')	121	102
880-36589-17	T-4 (3)	118	100
880-36589-18	T-5 (0-1')	149 S1+	131 S1+
880-36589-19	T-5 (1.5')	115	101
880-36589-20	T-5 (2')	130	115
880-36589-21	T-5 (3')	92	104
880-36589-21 MS	T-5 (3')	100	101
880-36589-21 MSD	T-5 (3')	89	90
880-36589-22	T-5 (4')	96	107
880-36589-23	T-5 (5')	86	95
880-36589-24	T-6 (0-1')	93	103
880-36589-25	T-6 (1.5')	110	121

Surrogate Summary

Client: Carmona Resources
Job ID: 880-36589-1
Project/Site: Asio Flowline (07.16.23)
SDG: Eddy County New Mexico

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-36589-26	T-6 (2')	108	118								
880-36589-27	T-6 (3')	93	104								
880-36589-28	T-6 (4')	87	96								
880-36589-29	T-7 (0-1')	88	98								
880-36589-30	T-7 (1.5')	89	94								
880-36589-31	T-7 (2')	88	97								
880-36589-32	T-7 (3')	112	120								
880-36589-33	T-8 (0-1')	87	98								
880-36589-34	T-8 (1.5')	93	103								
880-36589-35	T-8 (2')	89	96								
880-36589-36	T-8 (3')	111	120								
880-36589-37	T-9 (0-1')	93	107								
880-36589-38	T-9 (1.5')	89	102								
880-36589-39	T-9 (2')	88	101								
880-36589-40	T-9 (3')	93	106								
880-36589-41	T-9 (4')	125	110								
880-36589-41 MS	T-9 (4')	147 S1+	109								
880-36589-41 MSD	T-9 (4')	143 S1+	107								
880-36589-42	T-9 (5')	130	115								
880-36589-43	T-9 (6')	143 S1+	129								
880-36589-44	T-9 (7')	146 S1+	132 S1+								
LCS 880-68548/2-A	Lab Control Sample	119	129								
LCS 880-68549/2-A	Lab Control Sample	94	115								
LCS 880-68551/2-A	Lab Control Sample	89	105								
LCSD 880-68548/3-A	Lab Control Sample Dup	107	100								
LCSD 880-68549/3-A	Lab Control Sample Dup	103	124								
LCSD 880-68551/3-A	Lab Control Sample Dup	89	88								
MB 880-68548/1-A	Method Blank	216 S1+	202 S1+								
MB 880-68549/1-A	Method Blank	155 S1+	192 S1+								
MB 880-68551/1-A	Method Blank	192 S1+	194 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68429/5-A
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/23 14:34	12/07/23 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/05/23 14:34*	*12/07/23 12:09*	*1*
1,4-Difluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*12/05/23 14:34*	*12/07/23 12:09*	*1*

Lab Sample ID: MB 880-68519/5-A
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 12:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 12:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 12:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/06/23 13:51	12/07/23 12:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:51	12/07/23 12:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/06/23 13:51	12/07/23 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*12/06/23 13:51*	*12/07/23 12:31*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/06/23 13:51*	*12/07/23 12:31*	*1*

Lab Sample ID: LCS 880-68519/1-A
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07870		mg/Kg		79	70 - 130
Toluene	0.100	0.08627		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08842		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1732		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08123		mg/Kg		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-68519/2-A
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68519

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07570		mg/Kg		76	70 - 130	4	35

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Lab Sample ID: LCSD 880-68519/2-A
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68519

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07664		mg/Kg		77	70 - 130	12	35
Ethylbenzene			0.100	0.08124		mg/Kg		81	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1574		mg/Kg		79	70 - 130	10	35
o-Xylene			0.100	0.07652		mg/Kg		77	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 880-36589-1 MS
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 68519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.100	0.04787	F1	mg/Kg		48	70 - 130
Toluene	<0.00199	U F2 F1	0.100	0.03883	F1	mg/Kg		39	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	0.04114	F1	mg/Kg		41	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.08809	F1	mg/Kg		44	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.03808	F1	mg/Kg		38	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-36589-1 MSD
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 68519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.05049	F1	mg/Kg		51	70 - 130	5	35
Toluene	<0.00199	U F2 F1	0.0996	0.06076	F2 F1	mg/Kg		61	70 - 130	44	35
Ethylbenzene	<0.00199	U F1	0.0996	0.05321	F1	mg/Kg		53	70 - 130	26	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1031	F1	mg/Kg		52	70 - 130	16	35
o-Xylene	<0.00199	U F1	0.0996	0.05310	F1	mg/Kg		53	70 - 130	33	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*

Lab Sample ID: MB 880-68521/5-A
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 01:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 01:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 01:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/06/23 13:54	12/08/23 01:57	1

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Lab Sample ID: MB 880-68521/5-A
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/23 13:54	12/08/23 01:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/06/23 13:54	12/08/23 01:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*12/06/23 13:54*	*12/08/23 01:57*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*12/06/23 13:54*	*12/08/23 01:57*	*1*

Lab Sample ID: LCS 880-68521/1-A
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68521

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08669		mg/Kg		87	70 - 130		
Toluene			0.100	0.09657		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09418		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1883		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.1029		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*159*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*

Lab Sample ID: LCSD 880-68521/2-A
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68521

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07628		mg/Kg		76	70 - 130	13	35
Toluene			0.100	0.08673		mg/Kg		87	70 - 130	11	35
Ethylbenzene			0.100	0.09157		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1718		mg/Kg		86	70 - 130	9	35
o-Xylene			0.100	0.08891		mg/Kg		89	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*

Lab Sample ID: 880-36589-21 MS
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: T-5 (3')
Prep Type: Total/NA
Prep Batch: 68521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1	0.100	0.04130	F1	mg/Kg		41	70 - 130		
Toluene	<0.00199	U F1 F2	0.100	0.003174	F1	mg/Kg		3	70 - 130		
Ethylbenzene	<0.00199	U F1 F2	0.100	0.004017	F1	mg/Kg		4	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.007482	F1	mg/Kg		4	70 - 130		
o-Xylene	<0.00199	U F1 F2	0.100	0.003320	F1	mg/Kg		3	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Lab Sample ID: 880-36589-21 MS
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: T-5 (3')
Prep Type: Total/NA
Prep Batch: 68521

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	48	S1-	70 - 130

Lab Sample ID: 880-36589-21 MSD
Matrix: Solid
Analysis Batch: 68562

Client Sample ID: T-5 (3')
Prep Type: Total/NA
Prep Batch: 68521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0996	0.04748	F1	mg/Kg		48	70 - 130	14	35
Toluene	<0.00199	U F1 F2	0.0996	0.06904	F1 F2	mg/Kg		69	70 - 130	182	35
Ethylbenzene	<0.00199	U F1 F2	0.0996	0.06008	F1 F2	mg/Kg		60	70 - 130	175	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.1377	F1 F2	mg/Kg		69	70 - 130	179	35
o-Xylene	<0.00199	U F1 F2	0.0996	0.05069	F1 F2	mg/Kg		51	70 - 130	175	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130
1,4-Difluorobenzene (Surr)	147	S1+	70 - 130

Lab Sample ID: MB 880-68522/5-B
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/07/23 13:56	12/07/23 23:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/07/23 13:56	12/07/23 23:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/07/23 13:56	12/07/23 23:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/07/23 13:56	12/07/23 23:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/07/23 13:56	12/07/23 23:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/07/23 13:56	12/07/23 23:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/07/23 13:56	12/07/23 23:49	1
1,4-Difluorobenzene (Surr)	158	S1+	70 - 130	12/07/23 13:56	12/07/23 23:49	1

Lab Sample ID: LCS 880-68522/1-A
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09869		mg/Kg		99	70 - 130
Toluene	0.100	0.09005		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08675		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09945		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Lab Sample ID: LCS 880-68522/1-A
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68522

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

Lab Sample ID: LCSD 880-68522/2-A
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68522

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1072		mg/Kg		107	70 - 130	8	35
Toluene			0.100	0.09441		mg/Kg		94	70 - 130	5	35
Ethylbenzene			0.100	0.08500		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1993		mg/Kg		100	70 - 130	1	35
o-Xylene			0.100	0.09827		mg/Kg		98	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-36589-41 MS
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: T-9 (4')
Prep Type: Total/NA
Prep Batch: 68522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.08856		mg/Kg		89	70 - 130		
Toluene	<0.00199	U	0.0996	0.07575		mg/Kg		76	70 - 130		
Ethylbenzene	<0.00199	U F1	0.0996	0.06154	F1	mg/Kg		62	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1500		mg/Kg		75	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.07947		mg/Kg		80	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-36589-41 MSD
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: T-9 (4')
Prep Type: Total/NA
Prep Batch: 68522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09622		mg/Kg		97	70 - 130	8	35
Toluene	<0.00199	U	0.0990	0.07706		mg/Kg		78	70 - 130	2	35
Ethylbenzene	<0.00199	U F1	0.0990	0.07186		mg/Kg		73	70 - 130	15	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1753		mg/Kg		89	70 - 130	16	35
o-Xylene	<0.00199	U	0.0990	0.08566		mg/Kg		87	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Lab Sample ID: MB 880-68548/1-A
Matrix: Solid
Analysis Batch: 68556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68548

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		12/06/23 17:23	12/07/23 07:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 17:23	12/07/23 07:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 17:23	12/07/23 07:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*216*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 07:55*	*1*
o-Terphenyl	*202*	*S1+*	*70 - 130*	*12/06/23 17:23*	*12/07/23 07:55*	*1*

Lab Sample ID: LCS 880-68548/2-A
Matrix: Solid
Analysis Batch: 68556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1056		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1113		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*129*		*70 - 130*

Lab Sample ID: LCSD 880-68548/3-A
Matrix: Solid
Analysis Batch: 68556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	978.6		mg/Kg		98	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1046		mg/Kg		105	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-36589-1 MS
Matrix: Solid
Analysis Batch: 68556

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 68548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	1000	1095		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	<50.5	U F1	1000	1451	F1	mg/Kg		142	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Lab Sample ID: 880-36589-1 MS
Matrix: Solid
Analysis Batch: 68556

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 68548

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*146*	*S1+*	*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: 880-36589-1 MSD
Matrix: Solid
Analysis Batch: 68556

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 68548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	1000	1131		mg/Kg		111	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.5	U F1	1000	1653	F1	mg/Kg		162	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*171*	*S1+*	*70 - 130*
o-Terphenyl	*118*		*70 - 130*

Lab Sample ID: MB 880-68549/1-A
Matrix: Solid
Analysis Batch: 68555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68549

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		12/06/23 17:26	12/07/23 07:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 07:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 17:26	12/07/23 07:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*155*	*S1+*	*70 - 130*	*12/06/23 17:26*	*12/07/23 07:55*	*1*
o-Terphenyl	*192*	*S1+*	*70 - 130*	*12/06/23 17:26*	*12/07/23 07:55*	*1*

Lab Sample ID: LCS 880-68549/2-A
Matrix: Solid
Analysis Batch: 68555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68549

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	926.7		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	935.1		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Lab Sample ID: LCSD 880-68549/3-A
Matrix: Solid
Analysis Batch: 68555

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68549

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	846.2		mg/Kg		85	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	880.0		mg/Kg		88	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*124*		*70 - 130*

Lab Sample ID: 880-36589-21 MS
Matrix: Solid
Analysis Batch: 68555

Client Sample ID: T-5 (3')
Prep Type: Total/NA
Prep Batch: 68549

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	993	890.0		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<50.3	U	993	987.1		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 880-36589-21 MSD
Matrix: Solid
Analysis Batch: 68555

Client Sample ID: T-5 (3')
Prep Type: Total/NA
Prep Batch: 68549

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	993	788.7		mg/Kg		77	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.3	U	993	897.6		mg/Kg		87	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: MB 880-68551/1-A
Matrix: Solid
Analysis Batch: 68637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68551

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		12/06/23 17:37	12/08/23 08:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 17:37	12/08/23 08:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 17:37	12/08/23 08:19	1

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Lab Sample ID: MB 880-68551/1-A
Matrix: Solid
Analysis Batch: 68637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68551

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	192	S1+	70 - 130	12/06/23 17:37	12/08/23 08:19	1
o-Terphenyl	194	S1+	70 - 130	12/06/23 17:37	12/08/23 08:19	1

Lab Sample ID: LCS 880-68551/2-A
Matrix: Solid
Analysis Batch: 68637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68551

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	977.7		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	864.7		mg/Kg		86	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-68551/3-A
Matrix: Solid
Analysis Batch: 68637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68551

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	982.6		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	909.3		mg/Kg		91	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 880-36589-41 MS
Matrix: Solid
Analysis Batch: 68637

Client Sample ID: T-9 (4')
Prep Type: Total/NA
Prep Batch: 68551

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1064		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	1470	F1	mg/Kg		144	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	109		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Lab Sample ID: 880-36589-41 MSD
Matrix: Solid
Analysis Batch: 68637

Client Sample ID: T-9 (4')
Prep Type: Total/NA
Prep Batch: 68551

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	<49.6	U	1010	1201		mg/Kg		116	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	1434	F1	mg/Kg		140	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*143*	*S1+*	*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68501/1-A
Matrix: Solid
Analysis Batch: 68589

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/07/23 13:54	1

Lab Sample ID: LCS 880-68501/2-A
Matrix: Solid
Analysis Batch: 68589

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-68501/3-A
Matrix: Solid
Analysis Batch: 68589

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	257.9		mg/Kg		103	90 - 110	2	20

Lab Sample ID: 880-36051-A-46-B MS
Matrix: Solid
Analysis Batch: 68589

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	890	F1	252	1103	F1	mg/Kg		85	90 - 110

Lab Sample ID: 880-36051-A-46-C MSD
Matrix: Solid
Analysis Batch: 68589

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	890	F1	252	1107	F1	mg/Kg		86	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-36469-A-1-C MS
Matrix: Solid
Analysis Batch: 68589

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10100	F1 F2	4990	12080	F1	mg/Kg		40	90 - 110

Lab Sample ID: 880-36469-A-1-D MSD
Matrix: Solid
Analysis Batch: 68589

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10100	F1 F2	4990	16440	F1 F2	mg/Kg		128	90 - 110	31	20

Lab Sample ID: MB 880-68523/1-A
Matrix: Solid
Analysis Batch: 68610

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/08/23 09:26	1

Lab Sample ID: LCS 880-68523/2-A
Matrix: Solid
Analysis Batch: 68610

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	269.9		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-68523/3-A
Matrix: Solid
Analysis Batch: 68610

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	269.4		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-36589-1 MS
Matrix: Solid
Analysis Batch: 68610

Client Sample ID: T-1 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	280		249	527.5		mg/Kg		99	90 - 110

Lab Sample ID: 880-36589-1 MSD
Matrix: Solid
Analysis Batch: 68610

Client Sample ID: T-1 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	280		249	520.6		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 880-36589-11 MS
Matrix: Solid
Analysis Batch: 68610

Client Sample ID: T-3 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5030	F1	4960	10640	F1	mg/Kg		113	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-36589-11 MSD
Matrix: Solid
Analysis Batch: 68610

Client Sample ID: T-3 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5030	F1	4960	10840	F1	mg/Kg		117	90 - 110	2	20

Lab Sample ID: MB 880-68524/1-A
Matrix: Solid
Analysis Batch: 68611

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/07/23 19:42	1

Lab Sample ID: LCS 880-68524/2-A
Matrix: Solid
Analysis Batch: 68611

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-68524/3-A
Matrix: Solid
Analysis Batch: 68611

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	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-36589-21 MS
Matrix: Solid
Analysis Batch: 68611

Client Sample ID: T-5 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9180		5050	14510		mg/Kg		106	90 - 110

Lab Sample ID: 880-36589-21 MSD
Matrix: Solid
Analysis Batch: 68611

Client Sample ID: T-5 (3')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9180		5050	14570		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-36589-31 MS
Matrix: Solid
Analysis Batch: 68611

Client Sample ID: T-7 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	136		248	376.4		mg/Kg		97	90 - 110

Lab Sample ID: 880-36589-31 MSD
Matrix: Solid
Analysis Batch: 68611

Client Sample ID: T-7 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	136		248	375.4		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

GC VOA

Prep Batch: 68429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-68429/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 68519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-1	T-1 (0-1')	Total/NA	Solid	5035	
880-36589-2	T-1 (1.5')	Total/NA	Solid	5035	
880-36589-3	T-1 (2')	Total/NA	Solid	5035	
880-36589-4	T-1 (3')	Total/NA	Solid	5035	
880-36589-5	T-2 (0-1')	Total/NA	Solid	5035	
880-36589-6	T-2 (1.5')	Total/NA	Solid	5035	
880-36589-7	T-2 (2')	Total/NA	Solid	5035	
880-36589-8	T-2 (3')	Total/NA	Solid	5035	
880-36589-9	T-3 (0-1')	Total/NA	Solid	5035	
880-36589-10	T-3 (1.5')	Total/NA	Solid	5035	
880-36589-11	T-3 (2')	Total/NA	Solid	5035	
880-36589-12	T-3 (3')	Total/NA	Solid	5035	
880-36589-13	T-3 (4')	Total/NA	Solid	5035	
880-36589-14	T-4 (0-1')	Total/NA	Solid	5035	
880-36589-15	T-4 (1.5')	Total/NA	Solid	5035	
880-36589-16	T-4 (2')	Total/NA	Solid	5035	
880-36589-17	T-4 (3)	Total/NA	Solid	5035	
880-36589-18	T-5 (0-1')	Total/NA	Solid	5035	
880-36589-19	T-5 (1.5')	Total/NA	Solid	5035	
880-36589-20	T-5 (2')	Total/NA	Solid	5035	
MB 880-68519/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68519/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68519/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36589-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-36589-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 68521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-21	T-5 (3')	Total/NA	Solid	5035	
880-36589-22	T-5 (4')	Total/NA	Solid	5035	
880-36589-23	T-5 (5')	Total/NA	Solid	5035	
880-36589-24	T-6 (0-1')	Total/NA	Solid	5035	
880-36589-25	T-6 (1.5')	Total/NA	Solid	5035	
880-36589-26	T-6 (2')	Total/NA	Solid	5035	
880-36589-27	T-6 (3')	Total/NA	Solid	5035	
880-36589-28	T-6 (4')	Total/NA	Solid	5035	
880-36589-29	T-7 (0-1')	Total/NA	Solid	5035	
880-36589-30	T-7 (1.5')	Total/NA	Solid	5035	
880-36589-31	T-7 (2')	Total/NA	Solid	5035	
880-36589-32	T-7 (3')	Total/NA	Solid	5035	
880-36589-33	T-8 (0-1')	Total/NA	Solid	5035	
880-36589-34	T-8 (1.5')	Total/NA	Solid	5035	
880-36589-35	T-8 (2')	Total/NA	Solid	5035	
880-36589-36	T-8 (3')	Total/NA	Solid	5035	
880-36589-37	T-9 (0-1')	Total/NA	Solid	5035	
880-36589-38	T-9 (1.5')	Total/NA	Solid	5035	
880-36589-39	T-9 (2')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

GC VOA (Continued)

Prep Batch: 68521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-40	T-9 (3')	Total/NA	Solid	5035	
MB 880-68521/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68521/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68521/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36589-21 MS	T-5 (3')	Total/NA	Solid	5035	
880-36589-21 MSD	T-5 (3')	Total/NA	Solid	5035	

Prep Batch: 68522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-41	T-9 (4')	Total/NA	Solid	5035	
880-36589-42	T-9 (5')	Total/NA	Solid	5035	
880-36589-43	T-9 (6')	Total/NA	Solid	5035	
880-36589-44	T-9 (7')	Total/NA	Solid	5035	
MB 880-68522/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-68522/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68522/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36589-41 MS	T-9 (4')	Total/NA	Solid	5035	
880-36589-41 MSD	T-9 (4')	Total/NA	Solid	5035	

Analysis Batch: 68562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-1	T-1 (0-1')	Total/NA	Solid	8021B	68519
880-36589-2	T-1 (1.5')	Total/NA	Solid	8021B	68519
880-36589-3	T-1 (2')	Total/NA	Solid	8021B	68519
880-36589-4	T-1 (3')	Total/NA	Solid	8021B	68519
880-36589-5	T-2 (0-1')	Total/NA	Solid	8021B	68519
880-36589-6	T-2 (1.5')	Total/NA	Solid	8021B	68519
880-36589-7	T-2 (2')	Total/NA	Solid	8021B	68519
880-36589-8	T-2 (3')	Total/NA	Solid	8021B	68519
880-36589-9	T-3 (0-1')	Total/NA	Solid	8021B	68519
880-36589-10	T-3 (1.5')	Total/NA	Solid	8021B	68519
880-36589-11	T-3 (2')	Total/NA	Solid	8021B	68519
880-36589-12	T-3 (3')	Total/NA	Solid	8021B	68519
880-36589-13	T-3 (4')	Total/NA	Solid	8021B	68519
880-36589-14	T-4 (0-1')	Total/NA	Solid	8021B	68519
880-36589-15	T-4 (1.5')	Total/NA	Solid	8021B	68519
880-36589-16	T-4 (2')	Total/NA	Solid	8021B	68519
880-36589-17	T-4 (3)	Total/NA	Solid	8021B	68519
880-36589-18	T-5 (0-1')	Total/NA	Solid	8021B	68519
880-36589-19	T-5 (1.5')	Total/NA	Solid	8021B	68519
880-36589-20	T-5 (2')	Total/NA	Solid	8021B	68519
880-36589-21	T-5 (3')	Total/NA	Solid	8021B	68521
880-36589-22	T-5 (4')	Total/NA	Solid	8021B	68521
880-36589-23	T-5 (5')	Total/NA	Solid	8021B	68521
880-36589-24	T-6 (0-1')	Total/NA	Solid	8021B	68521
880-36589-25	T-6 (1.5')	Total/NA	Solid	8021B	68521
880-36589-26	T-6 (2')	Total/NA	Solid	8021B	68521
880-36589-27	T-6 (3')	Total/NA	Solid	8021B	68521
880-36589-28	T-6 (4')	Total/NA	Solid	8021B	68521
880-36589-29	T-7 (0-1')	Total/NA	Solid	8021B	68521
880-36589-30	T-7 (1.5')	Total/NA	Solid	8021B	68521

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

GC VOA (Continued)

Analysis Batch: 68562 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-31	T-7 (2')	Total/NA	Solid	8021B	68521
880-36589-32	T-7 (3')	Total/NA	Solid	8021B	68521
880-36589-33	T-8 (0-1')	Total/NA	Solid	8021B	68521
880-36589-34	T-8 (1.5')	Total/NA	Solid	8021B	68521
880-36589-35	T-8 (2')	Total/NA	Solid	8021B	68521
880-36589-36	T-8 (3')	Total/NA	Solid	8021B	68521
880-36589-37	T-9 (0-1')	Total/NA	Solid	8021B	68521
880-36589-38	T-9 (1.5')	Total/NA	Solid	8021B	68521
880-36589-39	T-9 (2')	Total/NA	Solid	8021B	68521
880-36589-40	T-9 (3')	Total/NA	Solid	8021B	68521
MB 880-68519/5-A	Method Blank	Total/NA	Solid	8021B	68519
MB 880-68521/5-A	Method Blank	Total/NA	Solid	8021B	68521
LCS 880-68519/1-A	Lab Control Sample	Total/NA	Solid	8021B	68519
LCS 880-68521/1-A	Lab Control Sample	Total/NA	Solid	8021B	68521
LCSD 880-68519/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68519
LCSD 880-68521/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68521
880-36589-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	68519
880-36589-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	68519
880-36589-21 MS	T-5 (3')	Total/NA	Solid	8021B	68521
880-36589-21 MSD	T-5 (3')	Total/NA	Solid	8021B	68521

Analysis Batch: 68564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-41	T-9 (4')	Total/NA	Solid	8021B	68522
880-36589-42	T-9 (5')	Total/NA	Solid	8021B	68522
880-36589-43	T-9 (6')	Total/NA	Solid	8021B	68522
880-36589-44	T-9 (7')	Total/NA	Solid	8021B	68522
MB 880-68429/5-A	Method Blank	Total/NA	Solid	8021B	68429
MB 880-68522/5-B	Method Blank	Total/NA	Solid	8021B	68522
LCS 880-68522/1-A	Lab Control Sample	Total/NA	Solid	8021B	68522
LCSD 880-68522/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68522
880-36589-41 MS	T-9 (4')	Total/NA	Solid	8021B	68522
880-36589-41 MSD	T-9 (4')	Total/NA	Solid	8021B	68522

Analysis Batch: 68694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-36589-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-36589-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-36589-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-36589-5	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-36589-6	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-36589-7	T-2 (2')	Total/NA	Solid	Total BTEX	
880-36589-8	T-2 (3')	Total/NA	Solid	Total BTEX	
880-36589-9	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-36589-10	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-36589-11	T-3 (2')	Total/NA	Solid	Total BTEX	
880-36589-12	T-3 (3')	Total/NA	Solid	Total BTEX	
880-36589-13	T-3 (4')	Total/NA	Solid	Total BTEX	
880-36589-14	T-4 (0-1')	Total/NA	Solid	Total BTEX	
880-36589-15	T-4 (1.5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

GC VOA (Continued)

Analysis Batch: 68694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-16	T-4 (2')	Total/NA	Solid	Total BTEX	
880-36589-17	T-4 (3)	Total/NA	Solid	Total BTEX	
880-36589-18	T-5 (0-1')	Total/NA	Solid	Total BTEX	
880-36589-19	T-5 (1.5')	Total/NA	Solid	Total BTEX	
880-36589-20	T-5 (2')	Total/NA	Solid	Total BTEX	
880-36589-21	T-5 (3')	Total/NA	Solid	Total BTEX	
880-36589-22	T-5 (4')	Total/NA	Solid	Total BTEX	
880-36589-23	T-5 (5')	Total/NA	Solid	Total BTEX	
880-36589-24	T-6 (0-1')	Total/NA	Solid	Total BTEX	
880-36589-25	T-6 (1.5')	Total/NA	Solid	Total BTEX	
880-36589-26	T-6 (2')	Total/NA	Solid	Total BTEX	
880-36589-27	T-6 (3')	Total/NA	Solid	Total BTEX	
880-36589-28	T-6 (4')	Total/NA	Solid	Total BTEX	
880-36589-29	T-7 (0-1')	Total/NA	Solid	Total BTEX	
880-36589-30	T-7 (1.5')	Total/NA	Solid	Total BTEX	
880-36589-31	T-7 (2')	Total/NA	Solid	Total BTEX	
880-36589-32	T-7 (3')	Total/NA	Solid	Total BTEX	
880-36589-33	T-8 (0-1')	Total/NA	Solid	Total BTEX	
880-36589-34	T-8 (1.5')	Total/NA	Solid	Total BTEX	
880-36589-35	T-8 (2')	Total/NA	Solid	Total BTEX	
880-36589-36	T-8 (3')	Total/NA	Solid	Total BTEX	
880-36589-37	T-9 (0-1')	Total/NA	Solid	Total BTEX	
880-36589-38	T-9 (1.5')	Total/NA	Solid	Total BTEX	
880-36589-39	T-9 (2')	Total/NA	Solid	Total BTEX	
880-36589-40	T-9 (3')	Total/NA	Solid	Total BTEX	
880-36589-41	T-9 (4')	Total/NA	Solid	Total BTEX	
880-36589-42	T-9 (5')	Total/NA	Solid	Total BTEX	
880-36589-43	T-9 (6')	Total/NA	Solid	Total BTEX	
880-36589-44	T-9 (7')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 68548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-36589-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-36589-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-36589-5	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-6	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-36589-7	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-36589-8	T-2 (3')	Total/NA	Solid	8015NM Prep	
880-36589-9	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-10	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-36589-11	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-36589-12	T-3 (3')	Total/NA	Solid	8015NM Prep	
880-36589-13	T-3 (4')	Total/NA	Solid	8015NM Prep	
880-36589-14	T-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-15	T-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-36589-16	T-4 (2')	Total/NA	Solid	8015NM Prep	
880-36589-17	T-4 (3)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

GC Semi VOA (Continued)

Prep Batch: 68548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-18	T-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-19	T-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-36589-20	T-5 (2')	Total/NA	Solid	8015NM Prep	
MB 880-68548/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68548/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68548/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36589-1 MS	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-1 MSD	T-1 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 68549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-21	T-5 (3')	Total/NA	Solid	8015NM Prep	
880-36589-22	T-5 (4')	Total/NA	Solid	8015NM Prep	
880-36589-23	T-5 (5')	Total/NA	Solid	8015NM Prep	
880-36589-24	T-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-25	T-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-36589-26	T-6 (2')	Total/NA	Solid	8015NM Prep	
880-36589-27	T-6 (3')	Total/NA	Solid	8015NM Prep	
880-36589-28	T-6 (4')	Total/NA	Solid	8015NM Prep	
880-36589-29	T-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-30	T-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-36589-31	T-7 (2')	Total/NA	Solid	8015NM Prep	
880-36589-32	T-7 (3')	Total/NA	Solid	8015NM Prep	
880-36589-33	T-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-34	T-8 (1.5')	Total/NA	Solid	8015NM Prep	
880-36589-35	T-8 (2')	Total/NA	Solid	8015NM Prep	
880-36589-36	T-8 (3')	Total/NA	Solid	8015NM Prep	
880-36589-37	T-9 (0-1')	Total/NA	Solid	8015NM Prep	
880-36589-38	T-9 (1.5')	Total/NA	Solid	8015NM Prep	
880-36589-39	T-9 (2')	Total/NA	Solid	8015NM Prep	
880-36589-40	T-9 (3')	Total/NA	Solid	8015NM Prep	
MB 880-68549/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68549/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68549/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36589-21 MS	T-5 (3')	Total/NA	Solid	8015NM Prep	
880-36589-21 MSD	T-5 (3')	Total/NA	Solid	8015NM Prep	

Prep Batch: 68551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-41	T-9 (4')	Total/NA	Solid	8015NM Prep	
880-36589-42	T-9 (5')	Total/NA	Solid	8015NM Prep	
880-36589-43	T-9 (6')	Total/NA	Solid	8015NM Prep	
880-36589-44	T-9 (7')	Total/NA	Solid	8015NM Prep	
MB 880-68551/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68551/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68551/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36589-41 MS	T-9 (4')	Total/NA	Solid	8015NM Prep	
880-36589-41 MSD	T-9 (4')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

GC Semi VOA

Analysis Batch: 68555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-21	T-5 (3')	Total/NA	Solid	8015B NM	68549
880-36589-22	T-5 (4')	Total/NA	Solid	8015B NM	68549
880-36589-23	T-5 (5')	Total/NA	Solid	8015B NM	68549
880-36589-24	T-6 (0-1')	Total/NA	Solid	8015B NM	68549
880-36589-25	T-6 (1.5')	Total/NA	Solid	8015B NM	68549
880-36589-26	T-6 (2')	Total/NA	Solid	8015B NM	68549
880-36589-27	T-6 (3')	Total/NA	Solid	8015B NM	68549
880-36589-28	T-6 (4')	Total/NA	Solid	8015B NM	68549
880-36589-29	T-7 (0-1')	Total/NA	Solid	8015B NM	68549
880-36589-30	T-7 (1.5')	Total/NA	Solid	8015B NM	68549
880-36589-31	T-7 (2')	Total/NA	Solid	8015B NM	68549
880-36589-32	T-7 (3')	Total/NA	Solid	8015B NM	68549
880-36589-33	T-8 (0-1')	Total/NA	Solid	8015B NM	68549
880-36589-34	T-8 (1.5')	Total/NA	Solid	8015B NM	68549
880-36589-35	T-8 (2')	Total/NA	Solid	8015B NM	68549
880-36589-36	T-8 (3')	Total/NA	Solid	8015B NM	68549
880-36589-37	T-9 (0-1')	Total/NA	Solid	8015B NM	68549
880-36589-38	T-9 (1.5')	Total/NA	Solid	8015B NM	68549
880-36589-39	T-9 (2')	Total/NA	Solid	8015B NM	68549
880-36589-40	T-9 (3')	Total/NA	Solid	8015B NM	68549
MB 880-68549/1-A	Method Blank	Total/NA	Solid	8015B NM	68549
LCS 880-68549/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68549
LCSD 880-68549/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68549
880-36589-21 MS	T-5 (3')	Total/NA	Solid	8015B NM	68549
880-36589-21 MSD	T-5 (3')	Total/NA	Solid	8015B NM	68549

Analysis Batch: 68556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-1	T-1 (0-1')	Total/NA	Solid	8015B NM	68548
880-36589-2	T-1 (1.5')	Total/NA	Solid	8015B NM	68548
880-36589-3	T-1 (2')	Total/NA	Solid	8015B NM	68548
880-36589-4	T-1 (3')	Total/NA	Solid	8015B NM	68548
880-36589-5	T-2 (0-1')	Total/NA	Solid	8015B NM	68548
880-36589-6	T-2 (1.5')	Total/NA	Solid	8015B NM	68548
880-36589-7	T-2 (2')	Total/NA	Solid	8015B NM	68548
880-36589-8	T-2 (3')	Total/NA	Solid	8015B NM	68548
880-36589-9	T-3 (0-1')	Total/NA	Solid	8015B NM	68548
880-36589-10	T-3 (1.5')	Total/NA	Solid	8015B NM	68548
880-36589-11	T-3 (2')	Total/NA	Solid	8015B NM	68548
880-36589-12	T-3 (3')	Total/NA	Solid	8015B NM	68548
880-36589-13	T-3 (4')	Total/NA	Solid	8015B NM	68548
880-36589-14	T-4 (0-1')	Total/NA	Solid	8015B NM	68548
880-36589-15	T-4 (1.5')	Total/NA	Solid	8015B NM	68548
880-36589-16	T-4 (2')	Total/NA	Solid	8015B NM	68548
880-36589-17	T-4 (3)	Total/NA	Solid	8015B NM	68548
880-36589-18	T-5 (0-1')	Total/NA	Solid	8015B NM	68548
880-36589-19	T-5 (1.5')	Total/NA	Solid	8015B NM	68548
880-36589-20	T-5 (2')	Total/NA	Solid	8015B NM	68548
MB 880-68548/1-A	Method Blank	Total/NA	Solid	8015B NM	68548
LCS 880-68548/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68548
LCSD 880-68548/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68548

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

GC Semi VOA (Continued)

Analysis Batch: 68556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-1 MS	T-1 (0-1')	Total/NA	Solid	8015B NM	68548
880-36589-1 MSD	T-1 (0-1')	Total/NA	Solid	8015B NM	68548

Analysis Batch: 68637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-41	T-9 (4')	Total/NA	Solid	8015B NM	68551
880-36589-42	T-9 (5')	Total/NA	Solid	8015B NM	68551
880-36589-43	T-9 (6')	Total/NA	Solid	8015B NM	68551
880-36589-44	T-9 (7')	Total/NA	Solid	8015B NM	68551
MB 880-68551/1-A	Method Blank	Total/NA	Solid	8015B NM	68551
LCS 880-68551/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68551
LCSD 880-68551/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68551
880-36589-41 MS	T-9 (4')	Total/NA	Solid	8015B NM	68551
880-36589-41 MSD	T-9 (4')	Total/NA	Solid	8015B NM	68551

Analysis Batch: 68672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-36589-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-36589-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-36589-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-36589-5	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-36589-6	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-36589-7	T-2 (2')	Total/NA	Solid	8015 NM	
880-36589-8	T-2 (3')	Total/NA	Solid	8015 NM	
880-36589-9	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-36589-10	T-3 (1.5')	Total/NA	Solid	8015 NM	
880-36589-11	T-3 (2')	Total/NA	Solid	8015 NM	
880-36589-12	T-3 (3')	Total/NA	Solid	8015 NM	
880-36589-13	T-3 (4')	Total/NA	Solid	8015 NM	
880-36589-14	T-4 (0-1')	Total/NA	Solid	8015 NM	
880-36589-15	T-4 (1.5')	Total/NA	Solid	8015 NM	
880-36589-16	T-4 (2')	Total/NA	Solid	8015 NM	
880-36589-17	T-4 (3)	Total/NA	Solid	8015 NM	
880-36589-18	T-5 (0-1')	Total/NA	Solid	8015 NM	
880-36589-19	T-5 (1.5')	Total/NA	Solid	8015 NM	
880-36589-20	T-5 (2')	Total/NA	Solid	8015 NM	
880-36589-21	T-5 (3')	Total/NA	Solid	8015 NM	
880-36589-22	T-5 (4')	Total/NA	Solid	8015 NM	
880-36589-23	T-5 (5')	Total/NA	Solid	8015 NM	
880-36589-24	T-6 (0-1')	Total/NA	Solid	8015 NM	
880-36589-25	T-6 (1.5')	Total/NA	Solid	8015 NM	
880-36589-26	T-6 (2')	Total/NA	Solid	8015 NM	
880-36589-27	T-6 (3')	Total/NA	Solid	8015 NM	
880-36589-28	T-6 (4')	Total/NA	Solid	8015 NM	
880-36589-29	T-7 (0-1')	Total/NA	Solid	8015 NM	
880-36589-30	T-7 (1.5')	Total/NA	Solid	8015 NM	
880-36589-31	T-7 (2')	Total/NA	Solid	8015 NM	
880-36589-32	T-7 (3')	Total/NA	Solid	8015 NM	
880-36589-33	T-8 (0-1')	Total/NA	Solid	8015 NM	
880-36589-34	T-8 (1.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

GC Semi VOA (Continued)

Analysis Batch: 68672 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-35	T-8 (2')	Total/NA	Solid	8015 NM	
880-36589-36	T-8 (3')	Total/NA	Solid	8015 NM	
880-36589-37	T-9 (0-1')	Total/NA	Solid	8015 NM	
880-36589-38	T-9 (1.5')	Total/NA	Solid	8015 NM	
880-36589-39	T-9 (2')	Total/NA	Solid	8015 NM	
880-36589-40	T-9 (3')	Total/NA	Solid	8015 NM	
880-36589-41	T-9 (4')	Total/NA	Solid	8015 NM	
880-36589-42	T-9 (5')	Total/NA	Solid	8015 NM	
880-36589-43	T-9 (6')	Total/NA	Solid	8015 NM	
880-36589-44	T-9 (7')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 68501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-41	T-9 (4')	Soluble	Solid	DI Leach	
880-36589-42	T-9 (5')	Soluble	Solid	DI Leach	
880-36589-43	T-9 (6')	Soluble	Solid	DI Leach	
880-36589-44	T-9 (7')	Soluble	Solid	DI Leach	
MB 880-68501/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68501/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68501/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36051-A-46-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-36051-A-46-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-36469-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-36469-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 68523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-36589-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-36589-3	T-1 (2')	Soluble	Solid	DI Leach	
880-36589-4	T-1 (3')	Soluble	Solid	DI Leach	
880-36589-5	T-2 (0-1')	Soluble	Solid	DI Leach	
880-36589-6	T-2 (1.5')	Soluble	Solid	DI Leach	
880-36589-7	T-2 (2')	Soluble	Solid	DI Leach	
880-36589-8	T-2 (3')	Soluble	Solid	DI Leach	
880-36589-9	T-3 (0-1')	Soluble	Solid	DI Leach	
880-36589-10	T-3 (1.5')	Soluble	Solid	DI Leach	
880-36589-11	T-3 (2')	Soluble	Solid	DI Leach	
880-36589-12	T-3 (3')	Soluble	Solid	DI Leach	
880-36589-13	T-3 (4')	Soluble	Solid	DI Leach	
880-36589-14	T-4 (0-1')	Soluble	Solid	DI Leach	
880-36589-15	T-4 (1.5')	Soluble	Solid	DI Leach	
880-36589-16	T-4 (2')	Soluble	Solid	DI Leach	
880-36589-17	T-4 (3)	Soluble	Solid	DI Leach	
880-36589-18	T-5 (0-1')	Soluble	Solid	DI Leach	
880-36589-19	T-5 (1.5')	Soluble	Solid	DI Leach	
880-36589-20	T-5 (2')	Soluble	Solid	DI Leach	
MB 880-68523/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68523/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

HPLC/IC (Continued)

Leach Batch: 68523 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-68523/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36589-1 MS	T-1 (0-1')	Soluble	Solid	DI Leach	
880-36589-1 MSD	T-1 (0-1')	Soluble	Solid	DI Leach	
880-36589-11 MS	T-3 (2')	Soluble	Solid	DI Leach	
880-36589-11 MSD	T-3 (2')	Soluble	Solid	DI Leach	

Leach Batch: 68524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-21	T-5 (3')	Soluble	Solid	DI Leach	
880-36589-22	T-5 (4')	Soluble	Solid	DI Leach	
880-36589-23	T-5 (5')	Soluble	Solid	DI Leach	
880-36589-24	T-6 (0-1')	Soluble	Solid	DI Leach	
880-36589-25	T-6 (1.5')	Soluble	Solid	DI Leach	
880-36589-26	T-6 (2')	Soluble	Solid	DI Leach	
880-36589-27	T-6 (3')	Soluble	Solid	DI Leach	
880-36589-28	T-6 (4')	Soluble	Solid	DI Leach	
880-36589-29	T-7 (0-1')	Soluble	Solid	DI Leach	
880-36589-30	T-7 (1.5')	Soluble	Solid	DI Leach	
880-36589-31	T-7 (2')	Soluble	Solid	DI Leach	
880-36589-32	T-7 (3')	Soluble	Solid	DI Leach	
880-36589-33	T-8 (0-1')	Soluble	Solid	DI Leach	
880-36589-34	T-8 (1.5')	Soluble	Solid	DI Leach	
880-36589-35	T-8 (2')	Soluble	Solid	DI Leach	
880-36589-36	T-8 (3')	Soluble	Solid	DI Leach	
880-36589-37	T-9 (0-1')	Soluble	Solid	DI Leach	
880-36589-38	T-9 (1.5')	Soluble	Solid	DI Leach	
880-36589-39	T-9 (2')	Soluble	Solid	DI Leach	
880-36589-40	T-9 (3')	Soluble	Solid	DI Leach	
MB 880-68524/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68524/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68524/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36589-21 MS	T-5 (3')	Soluble	Solid	DI Leach	
880-36589-21 MSD	T-5 (3')	Soluble	Solid	DI Leach	
880-36589-31 MS	T-7 (2')	Soluble	Solid	DI Leach	
880-36589-31 MSD	T-7 (2')	Soluble	Solid	DI Leach	

Analysis Batch: 68589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-41	T-9 (4')	Soluble	Solid	300.0	68501
880-36589-42	T-9 (5')	Soluble	Solid	300.0	68501
880-36589-43	T-9 (6')	Soluble	Solid	300.0	68501
880-36589-44	T-9 (7')	Soluble	Solid	300.0	68501
MB 880-68501/1-A	Method Blank	Soluble	Solid	300.0	68501
LCS 880-68501/2-A	Lab Control Sample	Soluble	Solid	300.0	68501
LCSD 880-68501/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68501
880-36051-A-46-B MS	Matrix Spike	Soluble	Solid	300.0	68501
880-36051-A-46-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	68501
880-36469-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	68501
880-36469-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	68501

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

HPLC/IC

Analysis Batch: 68610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-1	T-1 (0-1')	Soluble	Solid	300.0	68523
880-36589-2	T-1 (1.5')	Soluble	Solid	300.0	68523
880-36589-3	T-1 (2')	Soluble	Solid	300.0	68523
880-36589-4	T-1 (3')	Soluble	Solid	300.0	68523
880-36589-5	T-2 (0-1')	Soluble	Solid	300.0	68523
880-36589-6	T-2 (1.5')	Soluble	Solid	300.0	68523
880-36589-7	T-2 (2')	Soluble	Solid	300.0	68523
880-36589-8	T-2 (3')	Soluble	Solid	300.0	68523
880-36589-9	T-3 (0-1')	Soluble	Solid	300.0	68523
880-36589-10	T-3 (1.5')	Soluble	Solid	300.0	68523
880-36589-11	T-3 (2')	Soluble	Solid	300.0	68523
880-36589-12	T-3 (3')	Soluble	Solid	300.0	68523
880-36589-13	T-3 (4')	Soluble	Solid	300.0	68523
880-36589-14	T-4 (0-1')	Soluble	Solid	300.0	68523
880-36589-15	T-4 (1.5')	Soluble	Solid	300.0	68523
880-36589-16	T-4 (2')	Soluble	Solid	300.0	68523
880-36589-17	T-4 (3)	Soluble	Solid	300.0	68523
880-36589-18	T-5 (0-1')	Soluble	Solid	300.0	68523
880-36589-19	T-5 (1.5')	Soluble	Solid	300.0	68523
880-36589-20	T-5 (2')	Soluble	Solid	300.0	68523
MB 880-68523/1-A	Method Blank	Soluble	Solid	300.0	68523
LCS 880-68523/2-A	Lab Control Sample	Soluble	Solid	300.0	68523
LCSD 880-68523/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68523
880-36589-1 MS	T-1 (0-1')	Soluble	Solid	300.0	68523
880-36589-1 MSD	T-1 (0-1')	Soluble	Solid	300.0	68523
880-36589-11 MS	T-3 (2')	Soluble	Solid	300.0	68523
880-36589-11 MSD	T-3 (2')	Soluble	Solid	300.0	68523

Analysis Batch: 68611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36589-21	T-5 (3')	Soluble	Solid	300.0	68524
880-36589-22	T-5 (4')	Soluble	Solid	300.0	68524
880-36589-23	T-5 (5')	Soluble	Solid	300.0	68524
880-36589-24	T-6 (0-1')	Soluble	Solid	300.0	68524
880-36589-25	T-6 (1.5')	Soluble	Solid	300.0	68524
880-36589-26	T-6 (2')	Soluble	Solid	300.0	68524
880-36589-27	T-6 (3')	Soluble	Solid	300.0	68524
880-36589-28	T-6 (4')	Soluble	Solid	300.0	68524
880-36589-29	T-7 (0-1')	Soluble	Solid	300.0	68524
880-36589-30	T-7 (1.5')	Soluble	Solid	300.0	68524
880-36589-31	T-7 (2')	Soluble	Solid	300.0	68524
880-36589-32	T-7 (3')	Soluble	Solid	300.0	68524
880-36589-33	T-8 (0-1')	Soluble	Solid	300.0	68524
880-36589-34	T-8 (1.5')	Soluble	Solid	300.0	68524
880-36589-35	T-8 (2')	Soluble	Solid	300.0	68524
880-36589-36	T-8 (3')	Soluble	Solid	300.0	68524
880-36589-37	T-9 (0-1')	Soluble	Solid	300.0	68524
880-36589-38	T-9 (1.5')	Soluble	Solid	300.0	68524
880-36589-39	T-9 (2')	Soluble	Solid	300.0	68524
880-36589-40	T-9 (3')	Soluble	Solid	300.0	68524
MB 880-68524/1-A	Method Blank	Soluble	Solid	300.0	68524

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

HPLC/IC (Continued)

Analysis Batch: 68611 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-68524/2-A	Lab Control Sample	Soluble	Solid	300.0	68524
LCSD 880-68524/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68524
880-36589-21 MS	T-5 (3')	Soluble	Solid	300.0	68524
880-36589-21 MSD	T-5 (3')	Soluble	Solid	300.0	68524
880-36589-31 MS	T-7 (2')	Soluble	Solid	300.0	68524
880-36589-31 MSD	T-7 (2')	Soluble	Solid	300.0	68524

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-1 (0-1')

Lab Sample ID: 880-36589-1
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 12:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 12:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 10:24	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 09:43	SMC	EET MID

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-36589-2
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 13:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 13:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 11:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 10:00	SMC	EET MID

Client Sample ID: T-1 (2')

Lab Sample ID: 880-36589-3
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 13:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 13:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 11:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 11:50	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 10:05	SMC	EET MID

Client Sample ID: T-1 (3')

Lab Sample ID: 880-36589-4
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 14:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 14:15	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-1 (3')

Lab Sample ID: 880-36589-4
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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			68672	12/07/23 12:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 12:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 10:11	SMC	EET MID

Client Sample ID: T-2 (0-1')

Lab Sample ID: 880-36589-5
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 14:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 12:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 12:33	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 10:16	SMC	EET MID

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-36589-6
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 15:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 12:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 10:34	SMC	EET MID

Client Sample ID: T-2 (2')

Lab Sample ID: 880-36589-7
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 15:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 15:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 13:16	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-2 (2')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-7
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 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 10:39	SMC	EET MID

Client Sample ID: T-2 (3')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 15:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 15:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 13:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 13:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 10:45	SMC	EET MID

Client Sample ID: T-3 (0-1')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 16:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 14:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		50			68610	12/08/23 10:50	SMC	EET MID

Client Sample ID: T-3 (1.5')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 16:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 16:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 14:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 14:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		20			68610	12/08/23 10:56	SMC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-3 (2')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 18:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 18:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 15:06	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		20			68610	12/08/23 11:02	SMC	EET MID

Client Sample ID: T-3 (3')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 19:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 15:27	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		10			68610	12/08/23 11:19	SMC	EET MID

Client Sample ID: T-3 (4')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 19:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 19:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 15:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 15:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 11:24	SMC	EET MID

Client Sample ID: T-4 (0-1')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 19:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 19:53	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-4 (0-1')

Lab Sample ID: 880-36589-14
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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			68672	12/07/23 16:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 16:10	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		10			68610	12/08/23 11:41	SMC	EET MID

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-36589-15
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 20:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 20:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 16:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 16:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 11:47	SMC	EET MID

Client Sample ID: T-4 (2')

Lab Sample ID: 880-36589-16
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 20:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 20:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 16:53	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 11:53	SMC	EET MID

Client Sample ID: T-4 (3)

Lab Sample ID: 880-36589-17
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 21:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 21:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 17:14	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-4 (3)
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-17
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			5.03 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		1			68610	12/08/23 11:58	SMC	EET MID

Client Sample ID: T-5 (0-1')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 21:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 21:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 17:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 17:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		50			68610	12/08/23 12:04	SMC	EET MID

Client Sample ID: T-5 (1.5')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 22:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 22:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 17:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 17:57	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		20			68610	12/08/23 12:09	SMC	EET MID

Client Sample ID: T-5 (2')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68519	12/06/23 13:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/07/23 22:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/07/23 22:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 18:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	68548	12/06/23 17:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68556	12/07/23 18:18	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	68523	12/06/23 13:58	CH	EET MID
Soluble	Analysis	300.0		20			68610	12/08/23 12:15	SMC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-5 (3')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 02:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 02:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 10:24	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 20:02	CH	EET MID

Client Sample ID: T-5 (4')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 02:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 02:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 11:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 20:21	CH	EET MID

Client Sample ID: T-5 (5')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 03:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 03:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 11:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 11:50	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		1			68611	12/07/23 20:28	CH	EET MID

Client Sample ID: T-6 (0-1')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 03:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 03:42	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-6 (0-1')

Lab Sample ID: 880-36589-24
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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			68672	12/07/23 12:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 12:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 20:34	CH	EET MID

Client Sample ID: T-6 (1.5')

Lab Sample ID: 880-36589-25
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 04:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 04:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 12:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 12:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 20:41	CH	EET MID

Client Sample ID: T-6 (2')

Lab Sample ID: 880-36589-26
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 04:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 04:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 12:55	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		5			68611	12/07/23 21:00	CH	EET MID

Client Sample ID: T-6 (3')

Lab Sample ID: 880-36589-27
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 05:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 05:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 13:16	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-6 (3')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-27
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 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		1			68611	12/07/23 21:07	CH	EET MID

Client Sample ID: T-6 (4')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-28
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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 05:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 05:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 13:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 13:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		1			68611	12/07/23 21:13	CH	EET MID

Client Sample ID: T-7 (0-1')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-29
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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 05:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 05:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 14:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		1			68611	12/07/23 21:20	CH	EET MID

Client Sample ID: T-7 (1.5')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-30
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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 06:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 06:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 14:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 14:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		1			68611	12/07/23 21:26	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-7 (2')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 08:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 08:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 15:06	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		1			68611	12/07/23 21:33	CH	EET MID

Client Sample ID: T-7 (3')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 08:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 08:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 15:27	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		1			68611	12/07/23 21:52	CH	EET MID

Client Sample ID: T-8 (0-1')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 08:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 08:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 15:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 15:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 21:59	CH	EET MID

Client Sample ID: T-8 (1.5')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 09:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 09:23	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-8 (1.5')

Lab Sample ID: 880-36589-34
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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			68672	12/07/23 16:10	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 16:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 22:19	CH	EET MID

Client Sample ID: T-8 (2')

Lab Sample ID: 880-36589-35
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 09:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 09:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 16:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 16:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		5			68611	12/07/23 22:25	CH	EET MID

Client Sample ID: T-8 (3')

Lab Sample ID: 880-36589-36
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 10:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 10:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 16:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		1			68611	12/07/23 22:32	CH	EET MID

Client Sample ID: T-9 (0-1')

Lab Sample ID: 880-36589-37
Matrix: Solid
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 10:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 10:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 17:14	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-9 (0-1')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-37
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			5.05 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 22:38	CH	EET MID

Client Sample ID: T-9 (1.5')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-38
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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 11:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 11:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 17:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 17:35	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 22:45	CH	EET MID

Client Sample ID: T-9 (2')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-39
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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 11:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 11:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 17:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 17:57	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 22:51	CH	EET MID

Client Sample ID: T-9 (3')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-40
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	68521	12/06/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68562	12/08/23 12:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 12:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/07/23 18:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	68549	12/06/23 17:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68555	12/07/23 18:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	68524	12/06/23 14:01	CH	EET MID
Soluble	Analysis	300.0		20			68611	12/07/23 22:58	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-9 (4')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-41
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	68522	12/07/23 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68564	12/08/23 00:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 00:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/08/23 10:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	68551	12/06/23 17:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68637	12/08/23 10:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	68501	12/06/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		20			68589	12/07/23 18:03	CH	EET MID

Client Sample ID: T-9 (5')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-42
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	68522	12/07/23 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68564	12/08/23 00:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 00:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/08/23 11:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	68551	12/06/23 17:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68637	12/08/23 11:57	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	68501	12/06/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		10			68589	12/07/23 18:11	CH	EET MID

Client Sample ID: T-9 (6')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	68522	12/07/23 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68564	12/08/23 00:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 00:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			68672	12/08/23 12:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	68551	12/06/23 17:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68637	12/08/23 12:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68501	12/06/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1			68589	12/08/23 09:25	CH	EET MID

Client Sample ID: T-9 (7')
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-44
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	68522	12/07/23 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68564	12/08/23 01:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68694	12/08/23 01:19	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Client Sample ID: T-9 (7')

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 13:18

Lab Sample ID: 880-36589-44

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			68672	12/08/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	68551	12/06/23 17:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68637	12/08/23 12:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	68501	12/06/23 14:00	SMC	EET MID
Soluble	Analysis	300.0		1			68589	12/08/23 09:33	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Asio Flowline (07.16.23)

Job ID: 880-36589-1
SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36589-1	T-1 (0-1')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-2	T-1 (1.5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-3	T-1 (2')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-4	T-1 (3')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-5	T-2 (0-1')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-6	T-2 (1.5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-7	T-2 (2')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-8	T-2 (3')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-9	T-3 (0-1')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-10	T-3 (1.5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-11	T-3 (2')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-12	T-3 (3')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-13	T-3 (4')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-14	T-4 (0-1')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-15	T-4 (1.5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-16	T-4 (2')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-17	T-4 (3)	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-18	T-5 (0-1')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-19	T-5 (1.5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-20	T-5 (2')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-21	T-5 (3')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-22	T-5 (4')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-23	T-5 (5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-24	T-6 (0-1')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-25	T-6 (1.5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-26	T-6 (2')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-27	T-6 (3')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-28	T-6 (4')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-29	T-7 (0-1')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-30	T-7 (1.5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-31	T-7 (2')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-32	T-7 (3')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-33	T-8 (0-1')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-34	T-8 (1.5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-35	T-8 (2')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-36	T-8 (3')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-37	T-9 (0-1')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-38	T-9 (1.5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-39	T-9 (2')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-40	T-9 (3')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-41	T-9 (4')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-42	T-9 (5')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-43	T-9 (6')	Solid	12/05/23 00:00	12/06/23 13:18
880-36589-44	T-9 (7')	Solid	12/05/23 00:00	12/06/23 13:18

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880-36589 Chain of Custody

12/11/2023

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Project Manager	Conner Moehring	Bill to. (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name.	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	Asio Flowline (07.16.23)	Turn Around	
Project Number	2099	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	GP		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID	178	
Cooler Custody Seals.	Yes No N/A	Correction Factor	0.2	
Sample Custody Seals	Yes No N/A	Temperature Reading:	-4.6	
Total Containers		Corrected Temperature.	-4.4	

Preservative Codes

None. NO — DI Water H_2O

Cool Cool — MeOH Me

HCL. HC — HNO_3. HN

H_2SO_4. H_2 — NaOH Na

H_3PO_4. HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
T-1 (0-1')	12/5/2023		X		G	1	X	X	X	
T-1 (1.5')	12/5/2023		X		G	1	X	X	X	
T-1 (2')	12/5/2023		X		G	1	X	X	X	
T-1 (3')	12/5/2023		X		G	1	X	X	X	
T-2 (0-1')	12/5/2023		X		G	1	X	X	X	
T-2 (1.5')	12/5/2023		X		G	1	X	X	X	
T-2 (2')	12/5/2023		X		G	1	X	X	X	
T-2 (3')	12/5/2023		X		G	1	X	X	X	
T-3 (0-1')	12/5/2023		X		G	1	X	X	X	
T-3 (1.5')	12/5/2023		X		G	1	X	X	X	

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

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	12/6/23@13:18		12/6/23 1318

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Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name:	
Address.	310 W Wall St Ste 500	Address.	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone:	432-813-6823 Email	mcarmona@carmonaresources.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	Asio Flowline (07.16.23)	Turn Around	
Project Number	2099	☐ Routine	☑ Rush
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	GP		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading:		
Total Containers.		Corrected Temperature:		

Preservative Codes

None. NO — DI Water H_2O

Cool Cool — MeOH Me

HCL. HC — HNO_3. HN

H_2SO_4. H_2 — NaOH Na

H_3PO_4. HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
T-3 (2')	12/5/2023		X		G	1		X	X	X	
T-3 (3')	12/5/2023		X		G	1		X	X	X	
T-3 (4')	12/5/2023		X		G	1		X	X	X	
T-4 (0-1')	12/5/2023		X		G	1		X	X	X	
T-4 (1.5')	12/5/2023		X		G	1		X	X	X	
T-4 (2')	12/5/2023		X		G	1		X	X	X	
T-4 (3')	12/5/2023		X		G	1		X	X	X	
T-5 (0-1')	12/5/2023		X		G	1		X	X	X	
T-5 (1.5')	12/5/2023		X		G	1		X	X	X	
T-5 (2')	12/5/2023		X		G	1		X	X	X	

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

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Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name.	Asio Flowline (07.16.23)	Turn Around	
Project Number	2099	☐ Routine	☑ Rush
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	GP		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature.		

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
T-5 (3')	12/5/2023		X		G	1		X	X	X
T-5 (4')	12/5/2023		X		G	1		X	X	X
T-5 (5')	12/5/2023		X		G	1		X	X	X
T-6 (0-1')	12/5/2023		X		G	1		X	X	X
T-6 (1 5')	12/5/2023		X		G	1		X	X	X
T-6 (2')	12/5/2023		X		G	1		X	X	X
T-6 (3')	12/5/2023		X		G	1		X	X	X
T-6 (4')	12/5/2023		X		G	1		X	X	X
T-7 (0-1')	12/5/2023		X		G	1		X	X	X
T-7 (1.5')	12/5/2023		X		G	1		X	X	X

Preservative Codes

None: NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3 HN

H_2SO_4. H_2 NaOH Na

H_3PO_4. HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

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Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name	
Address.	310 W Wall St Ste 500	Address.	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name:	Asio Flowline (07.16.23)	Turn Around	
Project Number	2099	☐ Routine	☑ Rush
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	GP		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature:		

Preservative Codes

None: NO DI Water H_2O

Cool Cool MeOH Me

HCL. HC HNO_3. HN

H_2SO_4. H_2 NaOH Na

H_3PO_4. HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
T-7 (2')	12/5/2023		X		G	1		X	X	X	
T-7 (3')	12/5/2023		X		G	1		X	X	X	
T-8 (0-1')	12/5/2023		X		G	1		X	X	X	
T-8 (1.5')	12/5/2023		X		G	1		X	X	X	
T-8 (2')	12/5/2023		X		G	1		X	X	X	
T-8 (3')	12/5/2023		X		G	1		X	X	X	
T-9 (0-1')	12/5/2023		X		G	1		X	X	X	
T-9 (1 5')	12/5/2023		X		G	1		X	X	X	
T-9 (2')	12/5/2023		X		G	1		X	X	X	
T-9 (3')	12/5/2023		X		G	1		X	X	X	

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

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Project Manager	Conner Moehring	Bill to. (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address.	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name:	Asio Flowline (07.16 23)	Turn Around	
Project Number	2099	☐ Routine	☑ Rush
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name.	GP		
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice.	Yes No
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature:		

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
T-9 (4')	12/5/2023		X		G	1		X	X	X
T-9 (5')	12/5/2023		X		G	1		X	X	X
T-9 (6')	12/5/2023		X		G	1		X	X	X
T-9 (7')	12/5/2023		X		G	1		X	X	X

Preservative Codes

None. NO — DI Water H_2O

Cool Cool — MeOH Me

HCL. HC — HNO_3. HN

H_2S0_4. H_2 — NaOH Na

H_3PO_4. HP

$NaHSO_4$. NABIS

$Na_2S_2O_3$. $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-36589-1
SDG Number: Eddy County New Mexico

Login Number: 36589
List Number: 1
Creator: Kramer, Jessica

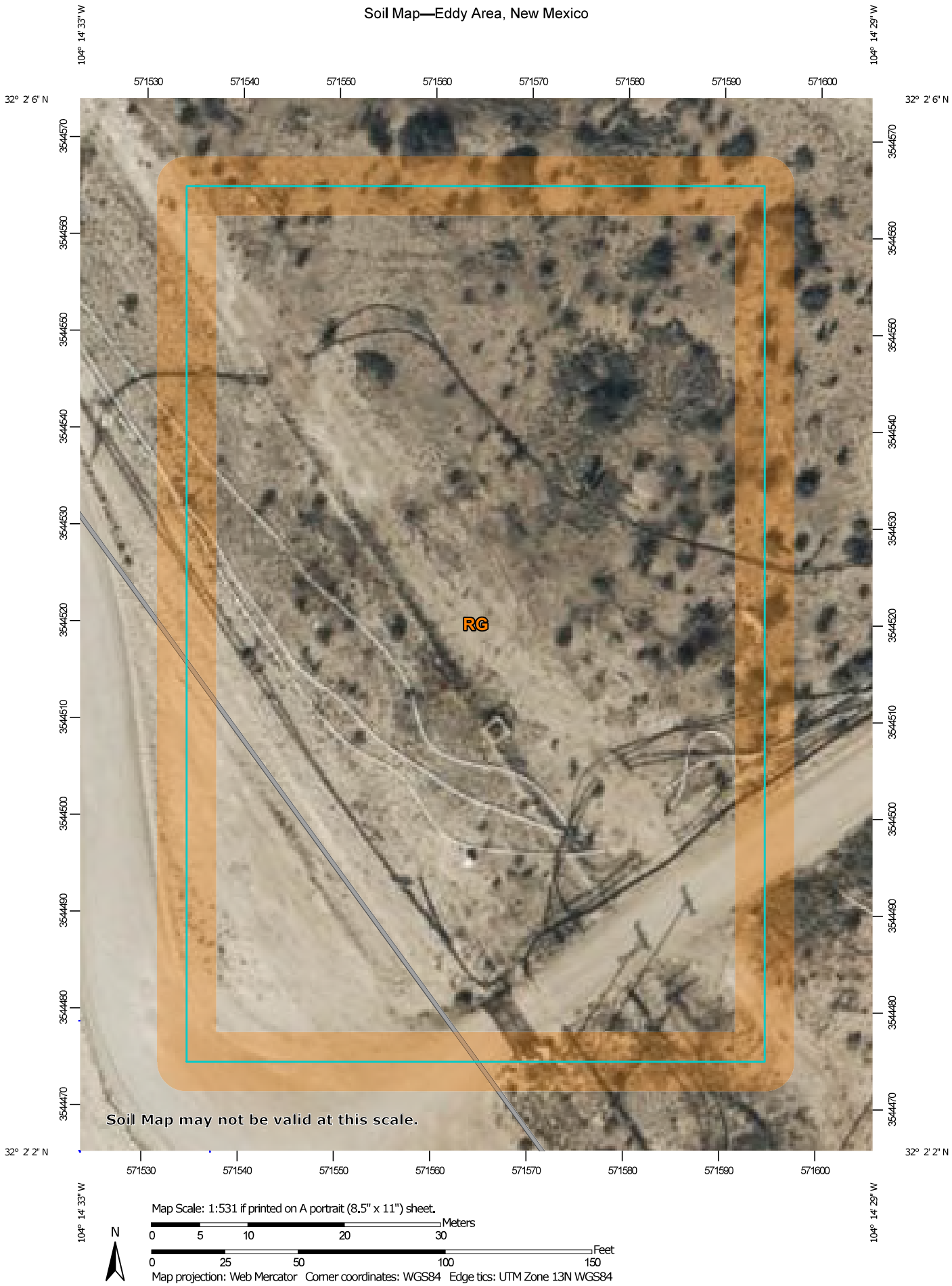
List Source: Eurofins Midland

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").		

APPENDIX F

CARMONA RESOURCES

Soil Map—Eddy Area, New Mexico



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MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	1.3	100.0%
Totals for Area of Interest		**1.3**	**100.0%**

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Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Largo

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent
Ecological site: R070BC033NM - Salty Bottomland
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

BLM SERIAL #:

COMPANY REFERENCE:

3.1 Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

Appendix D

NMOCD Correspondence

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Monday, June 10, 2024 4:21 PM
To: Nixon, Justin
Cc: Tavarez, Ike; Foord, Scott; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: nAPP2320851728 extension request Asio Otus Federal 003H

You don't often get email from robert.hamlet@emnrd.nm.gov. Learn why this is important

Arcadis Warning: Exercise caution with email messages from external sources such as this message. Always verify the sender and avoid clicking on links or scanning QR codes unless certain of their authenticity.

RE: Incident **#NAPP2320851728**

Justin,

Your request for a 90 day extension to **September 9th, 2024** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Nixon, Justin <Justin.Nixon@arcadis.com>
Sent: Monday, June 10, 2024 1:46 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Tavarez, Ike <Ike.Tavarez@conocophillips.com>; Foord, Scott <William.Foord@arcadis.com>
Subject: [EXTERNAL] nAPP2320851728 extension request Asio Otus Federal 003H

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

Good afternoon Mr. Hamlet,

We would like to please request a 90 day extension on the 6/11/24 submittal deadline below. We have completed the assessment and have the approved work plan for remediation ready to proceed. Access had been restricted due to an active layflat line parallel to the road. We had been working with the BLM to find the owner. We contacted Solaris and they are moving it to the south side of the road for us to begin. Please let me know if you need any additional information. Incident # nAPP2320851728.

Thanks,

Justin Nixon | Certified Project Manager 1 | justin.nixon@arcadis.com
Arcadis | Arcadis U.S., Inc.
1004 N Big Spring Street, Suite 121 Midland TX | 79701 | USA
T. +1 432 214 2972| M. +1 432 296 9547

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, March 11, 2024 4:08 PM
To: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: [EXTERNAL]The Oil Conservation Division (OCD) has approved the application, Application ID: 315406

CAUTION:This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Brittany Esparza for COG OPERATING LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2320851728,
with the following conditions:

- **The Remediation Plan is Conditionally Approved. Due to the sensitive nature of the site (high karst), the variance request for 500 ft2 confirmation samples is denied. Limited excavation around oil and gas equipment is denied. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please collect confirmation samples, representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation standards set forth in the OCD Spill Rule.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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Appendix E

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 8/21/2024 9:36:55 PM Revision 1

JOB DESCRIPTION

asio otus fed 003h

JOB NUMBER

890-6879-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 9/23/2024 11:17:33 AM

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated
8/21/2024 9:36:55 PM
Revision 1

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Laboratory Job ID: 890-6879-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 880-45311-1 Eurofins Midland

Job Narrative
880-45311-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 6/26/2024 1:55 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 4.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1-0-2.5' (880-45311-1), SW-2-0-2.5' (880-45311-2), B-1-2.5' (880-45311-3), B-2-2.5' (880-45311-4), B-3-2.5' (880-45311-5), B-4-2.5' (880-45311-6) and B-5-2.5' (880-45311-7).

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-84355 and analytical batch 880-84375 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.

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 880-45311-2 Eurofins Midland

Job Narrative
880-45311-2

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 6/26/2024 1:55 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 4.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1-0-2.5' (880-45311-1), SW-2-0-2.5' (880-45311-2), B-1-2.5' (880-45311-3), B-2-2.5' (880-45311-4), B-3-2.5' (880-45311-5), B-4-2.5' (880-45311-6) and B-5-2.5' (880-45311-7).

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-84443 and analytical batch 880-84442 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-84443 and analytical batch 880-84442 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-84443 and analytical batch 880-84442 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-84377 and analytical batch 880-84437 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-2-0-2.5' (880-45311-2), (890-6855-A-35-B), (890-6855-A-35-C MS) and (890-6855-A-35-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-84377 and analytical batch 880-84437 contained Gasoline Range Organics (GRO)-C6-C10, Diesel Range Organics (Over C10-C28) and Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 880-45355-1 Eurofins Midland

Job Narrative
880-45355-1

REVISION

The report being provided is a revision of the original report sent on 7/2/2024. The report (revision 1) is being revised due to Revised report to verify results..

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 6/27/2024 2:37 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 5.5°C.

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-84412 and analytical batch 880-84451 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-3-0-6' (880-45355-1), SW-4-0-6' (880-45355-2), SW-5-0-6' (880-45355-3), B-6-6' (880-45355-4), B-8-6' (880-45355-6), B-9-3' (880-45355-7), B-10-3' (880-45355-8) and (890-6853-A-1-D MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-84443 and analytical batch 880-84442 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-84443 and analytical batch 880-84442 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-84443 and analytical batch 880-84442 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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.

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 880-45542-1 Eurofins Midland

Job Narrative
880-45542-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 7/2/2024 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-11-4' (880-45542-1), B-12-4' (880-45542-2), B-14-4' (880-45542-3), B-15-4' (880-45542-4), B-16-4' (880-45542-5), B-17-4' (880-45542-6), B-18-4' (880-45542-7), B-19-4' (880-45542-8), B-20-4' (880-45542-9), B-21-4' (880-45542-10), Soil Pile (880-45542-11), SW-6-0-4' (880-45542-12) and SW-7-0-4' (880-45542-13).

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-84966 and analytical batch 880-84968 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.

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 880-45542-2 Eurofins Midland

Job Narrative
880-45542-2

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 7/2/2024 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-11-4' (880-45542-1), B-12-4' (880-45542-2), B-14-4' (880-45542-3), B-15-4' (880-45542-4), B-16-4' (880-45542-5), B-17-4' (880-45542-6), B-18-4' (880-45542-7), B-19-4' (880-45542-8), B-20-4' (880-45542-9), B-21-4' (880-45542-10), Soil Pile (880-45542-11), SW-6-0-4' (880-45542-12) and SW-7-0-4' (880-45542-13).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-84805 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-84805/20).

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-84805/8). Evidence of matrix interferences is not obvious.

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

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84901 and analytical batch 880-84928 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.

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 890-6856-1 Eurofins Carlsbad

Job Narrative
890-6856-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt
The sample was received on 6/27/2024 4:51 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: B - 13 - 3' (890-6856-1).

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-84594 and analytical batch 880-84647 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B - 13 - 3' (890-6856-1), (LCS 880-84594/2-A), (880-45368-A-83-C), (880-45368-A-83-D MS) and (880-45368-A-83-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-84594 and analytical batch 880-84647 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 890-6879-1 Eurofins Carlsbad

Job Narrative
890-6879-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 7/2/2024 4:37 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 10.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-22 (890-6879-1), B-23 (890-6879-2), B-24 (890-6879-3), B-25 (890-6879-4), B-26 (890-6879-5), B-27 (890-6879-6), B-28 (890-6879-7), SW-8 (890-6879-8), SW-9 (890-6879-9), SW-10 (890-6879-10), SW-1A (890-6879-11), B-29 (890-6879-12), B-30 (890-6879-13), B-31 (890-6879-14), B-32 (890-6879-15), B-33 (890-6879-16), B-34 (890-6879-17), B-35 (890-6879-18), B-36 (890-6879-19), SW-11 (890-6879-20), SW-12 (890-6879-21) and SW-13 (890-6879-22).

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-84943 and analytical batch 880-84952 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.

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 890-6879-2 Eurofins Carlsbad

Job Narrative
890-6879-2

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 7/2/2024 4:37 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 10.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-22 (890-6879-1), B-23 (890-6879-2), B-24 (890-6879-3), B-25 (890-6879-4), B-26 (890-6879-5), B-27 (890-6879-6), B-28 (890-6879-7), SW-8 (890-6879-8), SW-9 (890-6879-9), SW-10 (890-6879-10), SW-1A (890-6879-11), B-29 (890-6879-12), B-30 (890-6879-13), B-31 (890-6879-14), B-32 (890-6879-15), B-33 (890-6879-16), B-34 (890-6879-17), B-35 (890-6879-18), B-36 (890-6879-19), SW-11 (890-6879-20), SW-12 (890-6879-21) and SW-13 (890-6879-22).

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

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85021 and analytical batch 880-85095 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-22 (890-6879-1), B-24 (890-6879-3), B-27 (890-6879-6), SW-9 (890-6879-9), B-30 (890-6879-13), B-31 (890-6879-14), B-34 (890-6879-17), B-35 (890-6879-18), B-36 (890-6879-19) and (890-6879-A-1-F MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-85020 and analytical batch 880-85003 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.

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 890-6921-1 Eurofins Carlsbad

Job Narrative
890-6921-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 7/9/2024 4:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B - 37 - 5' (890-6921-1), B - 38 - 5' (890-6921-2), B - 39 - 5' (890-6921-3), B - 40 - 5' (890-6921-4), B - 41 - 5' (890-6921-5), B - 42 - 5' (890-6921-6), B - 43 - 5' (890-6921-7), B - 44 - 5' (890-6921-8), SW - 14 - 0 - 5' (890-6921-9), SW - 15 - 0 - 5' (890-6921-10), B - 7A - 6' (890-6921-11), SW - 16 - 0 - 4' (890-6921-12), SW - 17 - 0 - 4' (890-6921-13), B - 45 - 4' (890-6921-14), B - 46 - 4' (890-6921-15), B - 47 - 4' (890-6921-16), B - 48 - 4' (890-6921-17), B - 49 - 4' (890-6921-18), B - 50 - 4' (890-6921-19), B - 51 - 4' (890-6921-20) and B - 52 - 4' (890-6921-21).

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-85422 and analytical batch 880-85430 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-85436 and analytical batch 880-85437 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.

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 890-6921-2 Eurofins Carlsbad

Job Narrative
890-6921-2

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 7/9/2024 4:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B - 37 - 5' (890-6921-1), B - 38 - 5' (890-6921-2), B - 39 - 5' (890-6921-3), B - 40 - 5' (890-6921-4), B - 41 - 5' (890-6921-5), B - 42 - 5' (890-6921-6), B - 43 - 5' (890-6921-7), B - 44 - 5' (890-6921-8), SW - 14 - 0 - 5' (890-6921-9), SW - 15 - 0 - 5' (890-6921-10), B - 7A - 6' (890-6921-11), SW - 16 - 0 - 4' (890-6921-12), SW - 17 - 0 - 4' (890-6921-13), B - 45 - 4' (890-6921-14), B - 46 - 4' (890-6921-15), B - 47 - 4' (890-6921-16), B - 48 - 4' (890-6921-17), B - 49 - 4' (890-6921-18), B - 50 - 4' (890-6921-19), B - 51 - 4' (890-6921-20) and B - 52 - 4' (890-6921-21).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: B - 38 - 5' (890-6921-2), B - 39 - 5' (890-6921-3), B - 41 - 5' (890-6921-5), B - 42 - 5' (890-6921-6), B - 43 - 5' (890-6921-7), B - 44 - 5' (890-6921-8), (LCS 880-85417/1-A) and (890-6921-A-1-E MS). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-85417 and analytical batch 880-85411 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: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B - 39 - 5' (890-6921-3). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-85376 and analytical batch 880-85442 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The method blank for preparation batch 880-85376 and analytical batch 880-85442 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85376 and analytical batch 880-85442 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The method blank for preparation batch 880-85557 and analytical batch 880-85608 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-85608 exhibited % difference of >

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 890-6921-2 (Continued) Eurofins Carlsbad

20% for the following analyte(s)o-Terphenyl. These results are within the labs acceptance limits and so the data has been reported.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW - 17 - 0 - 4' (890-6921-13), B - 46 - 4' (890-6921-15), B - 47 - 4' (890-6921-16), B - 48 - 4' (890-6921-17), B - 49 - 4' (890-6921-18), B - 51 - 4' (890-6921-20) and (890-6919-A-10-D MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B - 50 - 4' (890-6921-19), B - 52 - 4' (890-6921-21) and (890-6919-A-10-C). 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.

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 890-6926-1 Eurofins Carlsbad

Job Narrative
890-6926-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 7/11/2024 8:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-53-4 (890-6926-1), B-54-4 (890-6926-2), B-55-4 (890-6926-3), B-56-4 (890-6926-4), B-57-4 (890-6926-5), B-58-4 (890-6926-6), B-59-4 (890-6926-7), SW-18-0-4 (890-6926-8), SW-19-0-4 (890-6926-9) and SW-20-0-4 (890-6926-10).

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-53-4 (890-6926-1) and B-55-4 (890-6926-3). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-85546 and analytical batch 880-85578 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The method blank for preparation batch 880-85572 and analytical batch 880-85584 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85572 and analytical batch 880-85584 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (890-6926-A-4-E MS) and (890-6926-A-4-F MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported>

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-85572 and analytical batch 880-85584 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-85572 and analytical batch 880-85584 was outside the upper control limits.

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

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 890-6926-1 (Continued) Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: asio otus fed 003h

Job ID: 890-6879-1

Job ID: 890-6929-1 Eurofins Carlsbad

Job Narrative
890-6929-1

REVISION

The report being provided is a revision of the original report sent on 7/15/2024. The report (revision 1) is being revised due to Revision created to make a merged report for the customer's project..

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 7/11/2024 2:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-18-4 (890-6929-2). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-54-4 (890-6929-1) and SW-19-4 (890-6929-3). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-85546 and analytical batch 880-85578 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-1-0-2.5'

Date Collected: 06/25/24 09:10
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-1
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	0.00138	mg/Kg		06/27/24 08:37	06/27/24 13:52	1
Toluene	<0.00199	U *-	0.00199	0.00199	mg/Kg		06/27/24 08:37	06/27/24 13:52	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		06/27/24 08:37	06/27/24 13:52	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	0.00227	mg/Kg		06/27/24 08:37	06/27/24 13:52	1
o-Xylene	<0.00199	U *- *1	0.00199	0.00157	mg/Kg		06/27/24 08:37	06/27/24 13:52	1
Xylenes, Total	<0.00398	U *- *1	0.00398	0.00227	mg/Kg		06/27/24 08:37	06/27/24 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*06/27/24 08:37*	*06/27/24 13:52*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/27/24 08:37*	*06/27/24 13:52*	*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	0.00227	mg/Kg			06/27/24 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**22.0**	**J**	49.7	14.9	mg/Kg			06/29/24 02:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**22.0**	**J B**	49.7	10.9	mg/Kg		06/27/24 14:33	06/29/24 02:25	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	14.9	mg/Kg		06/27/24 14:33	06/29/24 02:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	12.4	mg/Kg		06/27/24 14:33	06/29/24 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/27/24 14:33*	*06/29/24 02:25*	*1*
o-Terphenyl	*93*		*70 - 130*	*06/27/24 14:33*	*06/29/24 02:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**783**	**F1**	50.1	3.96	mg/Kg			06/28/24 06:59	10

Client Sample ID: SW-2-0-2.5'

Date Collected: 06/25/24 09:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00140	mg/Kg		06/27/24 08:22	06/27/24 15:23	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		06/27/24 08:22	06/27/24 15:23	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		06/27/24 08:22	06/27/24 15:23	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00230	mg/Kg		06/27/24 08:22	06/27/24 15:23	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		06/27/24 08:22	06/27/24 15:23	1
Xylenes, Total	<0.00403	U	0.00403	0.00230	mg/Kg		06/27/24 08:22	06/27/24 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/27/24 08:22*	*06/27/24 15:23*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/27/24 08:22*	*06/27/24 15:23*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-2-0-2.5'

Date Collected: 06/25/24 09:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00230	mg/Kg			06/27/24 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	14.9	mg/Kg			06/29/24 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	10.9	mg/Kg		06/27/24 14:33	06/29/24 02:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		06/27/24 14:33	06/29/24 02:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		06/27/24 14:33	06/29/24 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*5*	*S1-*	*70 - 130*	*06/27/24 14:33*	*06/29/24 02:43*	*1*
o-Terphenyl	*5*	*S1-*	*70 - 130*	*06/27/24 14:33*	*06/29/24 02:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**422**		4.99	0.394	mg/Kg			06/28/24 21:48	1

Client Sample ID: B-1-2.5'

Date Collected: 06/25/24 11:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-3
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	0.00138	mg/Kg		06/27/24 08:22	06/27/24 15:43	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		06/27/24 08:22	06/27/24 15:43	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		06/27/24 08:22	06/27/24 15:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		06/27/24 08:22	06/27/24 15:43	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		06/27/24 08:22	06/27/24 15:43	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		06/27/24 08:22	06/27/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/27/24 08:22*	*06/27/24 15:43*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/27/24 08:22*	*06/27/24 15:43*	*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	0.00227	mg/Kg			06/27/24 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			06/29/24 03:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**12.2**	**J B**	50.0	11.0	mg/Kg		06/27/24 14:33	06/29/24 03:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/27/24 14:33	06/29/24 03:50	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-1-2.5'
Date Collected: 06/25/24 11:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	12.5	mg/Kg		06/27/24 14:33	06/29/24 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/27/24 14:33*	*06/29/24 03:50*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/27/24 14:33*	*06/29/24 03:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		5.03	0.397	mg/Kg			06/28/24 22:08	1

Client Sample ID: B-2-2.5'
Date Collected: 06/25/24 11:30
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		06/27/24 08:22	06/27/24 16:04	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		06/27/24 08:22	06/27/24 16:04	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		06/27/24 08:22	06/27/24 16:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00226	mg/Kg		06/27/24 08:22	06/27/24 16:04	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		06/27/24 08:22	06/27/24 16:04	1
Xylenes, Total	<0.00396	U	0.00396	0.00226	mg/Kg		06/27/24 08:22	06/27/24 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/27/24 08:22*	*06/27/24 16:04*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*06/27/24 08:22*	*06/27/24 16:04*	*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	0.00226	mg/Kg			06/27/24 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	15.0	mg/Kg			06/29/24 04:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**12.2**	**J B**	49.9	10.9	mg/Kg		06/27/24 14:33	06/29/24 04:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/27/24 14:33	06/29/24 04:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	12.5	mg/Kg		06/27/24 14:33	06/29/24 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*06/27/24 14:33*	*06/29/24 04:10*	*1*
o-Terphenyl	*86*		*70 - 130*	*06/27/24 14:33*	*06/29/24 04:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**131**		5.05	0.399	mg/Kg			06/28/24 22:15	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-3-2.5'
Date Collected: 06/25/24 13:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00140	mg/Kg		06/27/24 08:37	06/27/24 15:21	1
Toluene	<0.00202	U *-	0.00202	0.00202	mg/Kg		06/27/24 08:37	06/27/24 15:21	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		06/27/24 08:37	06/27/24 15:21	1
m-Xylene & p-Xylene	<0.00403	U *- *1	0.00403	0.00230	mg/Kg		06/27/24 08:37	06/27/24 15:21	1
o-Xylene	<0.00202	U *- *1	0.00202	0.00160	mg/Kg		06/27/24 08:37	06/27/24 15:21	1
Xylenes, Total	<0.00403	U *- *1	0.00403	0.00230	mg/Kg		06/27/24 08:37	06/27/24 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/27/24 08:37*	*06/27/24 15:21*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/27/24 08:37*	*06/27/24 15:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00230	mg/Kg			06/27/24 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**31.6**	**J**	49.8	14.9	mg/Kg			06/29/24 04:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**31.6**	**J B**	49.8	10.9	mg/Kg		06/27/24 14:33	06/29/24 04:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		06/27/24 14:33	06/29/24 04:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		06/27/24 14:33	06/29/24 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/27/24 14:33*	*06/29/24 04:31*	*1*
o-Terphenyl	*94*		*70 - 130*	*06/27/24 14:33*	*06/29/24 04:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		5.04	0.398	mg/Kg			06/28/24 22:21	1

Client Sample ID: B-4-2.5'
Date Collected: 06/25/24 13:30
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		06/27/24 08:37	06/27/24 17:12	1
Toluene	<0.00202	U *-	0.00202	0.00202	mg/Kg		06/27/24 08:37	06/27/24 17:12	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		06/27/24 08:37	06/27/24 17:12	1
m-Xylene & p-Xylene	<0.00404	U *- *1	0.00404	0.00231	mg/Kg		06/27/24 08:37	06/27/24 17:12	1
o-Xylene	<0.00202	U *- *1	0.00202	0.00160	mg/Kg		06/27/24 08:37	06/27/24 17:12	1
Xylenes, Total	<0.00404	U *- *1	0.00404	0.00231	mg/Kg		06/27/24 08:37	06/27/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/27/24 08:37*	*06/27/24 17:12*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/27/24 08:37*	*06/27/24 17:12*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-4-2.5'
Date Collected: 06/25/24 13:30
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			06/27/24 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**21.4**	**J**	49.8	14.9	mg/Kg			06/29/24 04:52	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	**21.4**	**J B**	49.8	10.9	mg/Kg		06/27/24 14:33	06/29/24 04:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		06/27/24 14:33	06/29/24 04:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		06/27/24 14:33	06/29/24 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/27/24 14:33*	*06/29/24 04:52*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/27/24 14:33*	*06/29/24 04:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.4**		5.04	0.398	mg/Kg			06/28/24 22:28	1

Client Sample ID: B-5-2.5'
Date Collected: 06/25/24 14:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		06/27/24 08:37	06/27/24 17:33	1
Toluene	<0.00200	U *-	0.00200	0.00200	mg/Kg		06/27/24 08:37	06/27/24 17:33	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		06/27/24 08:37	06/27/24 17:33	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399	0.00228	mg/Kg		06/27/24 08:37	06/27/24 17:33	1
o-Xylene	<0.00200	U *- *1	0.00200	0.00158	mg/Kg		06/27/24 08:37	06/27/24 17:33	1
Xylenes, Total	<0.00399	U *- *1	0.00399	0.00228	mg/Kg		06/27/24 08:37	06/27/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/27/24 08:37*	*06/27/24 17:33*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*06/27/24 08:37*	*06/27/24 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00228	mg/Kg			06/27/24 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**64.9**		49.7	14.9	mg/Kg			06/28/24 22:35	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	**41.0**	**J B *1**	49.7	10.9	mg/Kg		06/28/24 08:11	06/28/24 22:35	1
Diesel Range Organics (Over C10-C28)	**23.9**	**J**	49.7	14.9	mg/Kg		06/28/24 08:11	06/28/24 22:35	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-5-2.5'

Date Collected: 06/25/24 14:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	12.4	mg/Kg		06/28/24 08:11	06/28/24 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*06/28/24 08:11*	*06/28/24 22:35*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/28/24 08:11*	*06/28/24 22:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**231**		4.99	0.394	mg/Kg			06/28/24 22:48	1

Client Sample ID: SW-3-0-6'

Date Collected: 06/26/24 09:55
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-1
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	0.00139	mg/Kg		06/27/24 16:42	06/28/24 11:45	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		06/27/24 16:42	06/28/24 11:45	1
Ethylbenzene	<0.00199	U F1	0.00199	0.00108	mg/Kg		06/27/24 16:42	06/28/24 11:45	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	0.00228	mg/Kg		06/27/24 16:42	06/28/24 11:45	1
o-Xylene	<0.00199	U F1	0.00199	0.00158	mg/Kg		06/27/24 16:42	06/28/24 11:45	1
Xylenes, Total	<0.00398	U F1	0.00398	0.00228	mg/Kg		06/27/24 16:42	06/28/24 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/27/24 16:42*	*06/28/24 11:45*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/27/24 16:42*	*06/28/24 11:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00228	mg/Kg			06/28/24 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**68.9**		49.7	14.9	mg/Kg			06/28/24 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**43.5**	**J B *1**	49.7	10.9	mg/Kg		06/28/24 08:11	06/28/24 22:54	1
Diesel Range Organics (Over C10-C28)	**25.4**	**J**	49.7	14.9	mg/Kg		06/28/24 08:11	06/28/24 22:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	12.4	mg/Kg		06/28/24 08:11	06/28/24 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/28/24 22:54*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/28/24 22:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**356**		49.9	3.94	mg/Kg			06/28/24 01:40	10

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-4-0-6'

Date Collected: 06/26/24 10:10
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		06/27/24 16:42	06/28/24 12:05	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		06/27/24 16:42	06/28/24 12:05	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		06/27/24 16:42	06/28/24 12:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		06/27/24 16:42	06/28/24 12:05	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		06/27/24 16:42	06/28/24 12:05	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		06/27/24 16:42	06/28/24 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/27/24 16:42*	*06/28/24 12:05*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/27/24 16:42*	*06/28/24 12:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			06/28/24 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**56.4**		49.8	14.9	mg/Kg			06/28/24 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**28.5**	**J B *1**	49.8	10.9	mg/Kg		06/28/24 08:11	06/28/24 23:14	1
Diesel Range Organics (Over C10-C28)	**27.9**	**J**	49.8	14.9	mg/Kg		06/28/24 08:11	06/28/24 23:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		06/28/24 08:11	06/28/24 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/28/24 23:14*	*1*
o-Terphenyl	*172*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/28/24 23:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.2**		50.4	3.98	mg/Kg			06/28/24 01:57	10

Client Sample ID: SW-5-0-6'

Date Collected: 06/26/24 10:20
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		06/27/24 16:42	06/28/24 12:26	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		06/27/24 16:42	06/28/24 12:26	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		06/27/24 16:42	06/28/24 12:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		06/27/24 16:42	06/28/24 12:26	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		06/27/24 16:42	06/28/24 12:26	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		06/27/24 16:42	06/28/24 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/27/24 16:42*	*06/28/24 12:26*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/27/24 16:42*	*06/28/24 12:26*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-5-0-6'

Lab Sample ID: 880-45355-3
Matrix: Solid
Date Collected: 06/26/24 10:20
Date Received: 06/27/24 14:37

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			06/28/24 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**67.2**		49.7	14.9	mg/Kg			06/28/24 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**46.9**	**J B *1**	49.7	10.9	mg/Kg		06/28/24 08:11	06/28/24 23:33	1
Diesel Range Organics (Over C10-C28)	**20.3**	**J**	49.7	14.9	mg/Kg		06/28/24 08:11	06/28/24 23:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	12.4	mg/Kg		06/28/24 08:11	06/28/24 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*159*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/28/24 23:33*	*1*
o-Terphenyl	*172*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/28/24 23:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**318**		50.2	3.97	mg/Kg			06/28/24 02:03	10

Client Sample ID: B-6-6'

Lab Sample ID: 880-45355-4
Matrix: Solid
Date Collected: 06/26/24 14:20
Date Received: 06/27/24 14:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		06/27/24 16:42	06/28/24 12:46	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		06/27/24 16:42	06/28/24 12:46	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		06/27/24 16:42	06/28/24 12:46	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		06/27/24 16:42	06/28/24 12:46	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		06/27/24 16:42	06/28/24 12:46	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		06/27/24 16:42	06/28/24 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/27/24 16:42*	*06/28/24 12:46*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*06/27/24 16:42*	*06/28/24 12:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00227	mg/Kg			06/28/24 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**63.0**		50.0	15.0	mg/Kg			06/28/24 23:52	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	**38.4**	**J B *1**	50.0	11.0	mg/Kg		06/28/24 08:11	06/28/24 23:52	1
Diesel Range Organics (Over C10-C28)	**24.6**	**J**	50.0	15.0	mg/Kg		06/28/24 08:11	06/28/24 23:52	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-6-6'
Date Collected: 06/26/24 14:20
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	12.5	mg/Kg		06/28/24 08:11	06/28/24 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/28/24 23:52*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/28/24 23:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**338**		49.8	3.93	mg/Kg			06/28/24 02:21	10

Client Sample ID: B-7-6'
Date Collected: 06/26/24 10:40
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		06/27/24 16:42	06/28/24 13:07	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		06/27/24 16:42	06/28/24 13:07	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		06/27/24 16:42	06/28/24 13:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		06/27/24 16:42	06/28/24 13:07	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		06/27/24 16:42	06/28/24 13:07	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		06/27/24 16:42	06/28/24 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*06/27/24 16:42*	*06/28/24 13:07*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*06/27/24 16:42*	*06/28/24 13:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			06/28/24 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**67.2**		49.9	15.0	mg/Kg			06/29/24 00:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**45.2**	**J B *1**	49.9	10.9	mg/Kg		06/28/24 08:11	06/29/24 00:31	1
Diesel Range Organics (Over C10-C28)	**22.0**	**J**	49.9	15.0	mg/Kg		06/28/24 08:11	06/29/24 00:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	12.5	mg/Kg		06/28/24 08:11	06/29/24 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/29/24 00:31*	*1*
o-Terphenyl	*157*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/29/24 00:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**750**		50.2	3.97	mg/Kg			06/28/24 02:27	10

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-8-6'

Date Collected: 06/26/24 14:30
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		06/27/24 16:42	06/28/24 13:28	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/27/24 16:42	06/28/24 13:28	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		06/27/24 16:42	06/28/24 13:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00229	mg/Kg		06/27/24 16:42	06/28/24 13:28	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		06/27/24 16:42	06/28/24 13:28	1
Xylenes, Total	<0.00401	U	0.00401	0.00229	mg/Kg		06/27/24 16:42	06/28/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/27/24 16:42*	*06/28/24 13:28*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*06/27/24 16:42*	*06/28/24 13:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00229	mg/Kg			06/28/24 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	**67.2**		49.8	14.9	mg/Kg			06/29/24 00:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**46.0**	**J B *1**	49.8	10.9	mg/Kg		06/28/24 08:11	06/29/24 00:50	1
Diesel Range Organics (Over C10-C28)	**21.2**	**J**	49.8	14.9	mg/Kg		06/28/24 08:11	06/29/24 00:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		06/28/24 08:11	06/29/24 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*06/28/24 08:11*	*06/29/24 00:50*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/29/24 00:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**377**		49.7	3.93	mg/Kg			06/28/24 02:33	10

Client Sample ID: B-9-3'

Date Collected: 06/26/24 15:00
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-7
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	0.00138	mg/Kg		06/27/24 16:42	06/28/24 13:49	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		06/27/24 16:42	06/28/24 13:49	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		06/27/24 16:42	06/28/24 13:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		06/27/24 16:42	06/28/24 13:49	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		06/27/24 16:42	06/28/24 13:49	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		06/27/24 16:42	06/28/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/27/24 16:42*	*06/28/24 13:49*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/27/24 16:42*	*06/28/24 13:49*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-9-3'
Date Collected: 06/26/24 15:00
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-7
Matrix: Solid

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	0.00227	mg/Kg			06/28/24 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	**54.0**		49.8	14.9	mg/Kg			06/29/24 01:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**30.8**	**J B *1**	49.8	10.9	mg/Kg		06/28/24 08:11	06/29/24 01:09	1
Diesel Range Organics (Over C10-C28)	**23.2**	**J**	49.8	14.9	mg/Kg		06/28/24 08:11	06/29/24 01:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		06/28/24 08:11	06/29/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*06/28/24 08:11*	*06/29/24 01:09*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/29/24 01:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**211**		5.04	0.398	mg/Kg			07/05/24 08:44	1

Client Sample ID: B-10-3'
Date Collected: 06/26/24 15:10
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		06/27/24 16:42	06/28/24 14:09	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		06/27/24 16:42	06/28/24 14:09	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		06/27/24 16:42	06/28/24 14:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		06/27/24 16:42	06/28/24 14:09	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		06/27/24 16:42	06/28/24 14:09	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		06/27/24 16:42	06/28/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/27/24 16:42*	*06/28/24 14:09*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*06/27/24 16:42*	*06/28/24 14:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00227	mg/Kg			06/28/24 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	**28.6**	**J**	50.0	15.0	mg/Kg			06/29/24 01:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	11.0	mg/Kg		06/28/24 08:11	06/29/24 01:28	1
Diesel Range Organics (Over C10-C28)	**28.6**	**J**	50.0	15.0	mg/Kg		06/28/24 08:11	06/29/24 01:28	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-10-3'
Date Collected: 06/26/24 15:10
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	12.5	mg/Kg		06/28/24 08:11	06/29/24 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*06/28/24 08:11*	*06/29/24 01:28*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*06/28/24 08:11*	*06/29/24 01:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		4.98	0.393	mg/Kg			07/05/24 08:51	1

Client Sample ID: B-11-4'
Date Collected: 07/01/24 10:50
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		07/02/24 15:05	07/02/24 20:40	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/02/24 15:05	07/02/24 20:40	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		07/02/24 15:05	07/02/24 20:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		07/02/24 15:05	07/02/24 20:40	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		07/02/24 15:05	07/02/24 20:40	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		07/02/24 15:05	07/02/24 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/02/24 15:05*	*07/02/24 20:40*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/02/24 15:05*	*07/02/24 20:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00227	mg/Kg			07/02/24 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			07/03/24 10:08	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	**11.1**	**J**	50.0	11.0	mg/Kg		07/02/24 19:19	07/03/24 10:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0	15.0	mg/Kg		07/02/24 19:19	07/03/24 10:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	12.5	mg/Kg		07/02/24 19:19	07/03/24 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/02/24 19:19*	*07/03/24 10:08*	*1*
o-Terphenyl	*79*		*70 - 130*	*07/02/24 19:19*	*07/03/24 10:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.0**		5.03	0.397	mg/Kg			07/03/24 12:09	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-12-4'
Date Collected: 07/01/24 10:00
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00140	mg/Kg		07/02/24 15:05	07/02/24 21:07	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/02/24 15:05	07/02/24 21:07	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/02/24 15:05	07/02/24 21:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00230	mg/Kg		07/02/24 15:05	07/02/24 21:07	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/02/24 15:05	07/02/24 21:07	1
Xylenes, Total	<0.00403	U	0.00403	0.00230	mg/Kg		07/02/24 15:05	07/02/24 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/02/24 15:05*	*07/02/24 21:07*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/02/24 15:05*	*07/02/24 21:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00230	mg/Kg			07/02/24 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	14.9	mg/Kg			07/03/24 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**11.0**	**J**	49.8	10.9	mg/Kg		07/02/24 19:19	07/03/24 11:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		07/02/24 19:19	07/03/24 11:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		07/02/24 19:19	07/03/24 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/02/24 19:19*	*07/03/24 11:09*	*1*
o-Terphenyl	*77*		*70 - 130*	*07/02/24 19:19*	*07/03/24 11:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**244**	**F1**	5.03	0.397	mg/Kg			07/03/24 15:30	1

Client Sample ID: B-14-4'
Date Collected: 07/01/24 10:10
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/02/24 15:05	07/02/24 21:34	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/02/24 15:05	07/02/24 21:34	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/02/24 15:05	07/02/24 21:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/02/24 15:05	07/02/24 21:34	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/02/24 15:05	07/02/24 21:34	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/02/24 15:05	07/02/24 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/02/24 15:05*	*07/02/24 21:34*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/02/24 15:05*	*07/02/24 21:34*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-14-4'
Date Collected: 07/01/24 10:10
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-3
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00228	mg/Kg			07/02/24 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.0	mg/Kg			07/03/24 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**11.7**	**J**	50.0	11.0	mg/Kg		07/02/24 19:19	07/03/24 11:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/02/24 19:19	07/03/24 11:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	12.5	mg/Kg		07/02/24 19:19	07/03/24 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/02/24 19:19*	*07/03/24 11:30*	*1*
o-Terphenyl	*79*		*70 - 130*	*07/02/24 19:19*	*07/03/24 11:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.6**		5.03	0.397	mg/Kg			07/03/24 15:46	1

Client Sample ID: B-15-4'
Date Collected: 07/01/24 11:00
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		07/02/24 15:05	07/02/24 22:00	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/02/24 15:05	07/02/24 22:00	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		07/02/24 15:05	07/02/24 22:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		07/02/24 15:05	07/02/24 22:00	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		07/02/24 15:05	07/02/24 22:00	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		07/02/24 15:05	07/02/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/02/24 15:05*	*07/02/24 22:00*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*07/02/24 15:05*	*07/02/24 22:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00227	mg/Kg			07/02/24 22:00	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	15.0	mg/Kg			07/03/24 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**11.9**	**J**	49.9	10.9	mg/Kg		07/02/24 19:19	07/03/24 11:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/02/24 19:19	07/03/24 11:51	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-15-4'
Date Collected: 07/01/24 11:00
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	12.5	mg/Kg		07/02/24 19:19	07/03/24 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/02/24 19:19*	*07/03/24 11:51*	*1*
o-Terphenyl	*76*		*70 - 130*	*07/02/24 19:19*	*07/03/24 11:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.9**		5.05	0.399	mg/Kg			07/03/24 15:51	1

Client Sample ID: B-16-4'
Date Collected: 07/01/24 11:10
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00140	mg/Kg		07/02/24 15:05	07/02/24 22:27	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/02/24 15:05	07/02/24 22:27	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/02/24 15:05	07/02/24 22:27	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00230	mg/Kg		07/02/24 15:05	07/02/24 22:27	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/02/24 15:05	07/02/24 22:27	1
Xylenes, Total	<0.00403	U	0.00403	0.00230	mg/Kg		07/02/24 15:05	07/02/24 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/02/24 15:05*	*07/02/24 22:27*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/02/24 15:05*	*07/02/24 22:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00230	mg/Kg			07/02/24 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.2**	**J**	49.8	14.9	mg/Kg			07/03/24 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**17.2**	**J**	49.8	10.9	mg/Kg		07/02/24 19:19	07/03/24 12:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		07/02/24 19:19	07/03/24 12:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		07/02/24 19:19	07/03/24 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*07/02/24 19:19*	*07/03/24 12:11*	*1*
o-Terphenyl	*70*		*70 - 130*	*07/02/24 19:19*	*07/03/24 12:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.36**		4.97	0.393	mg/Kg			07/03/24 15:57	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-17-4'

Date Collected: 07/01/24 11:20
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		07/02/24 15:05	07/02/24 22:54	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/02/24 15:05	07/02/24 22:54	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		07/02/24 15:05	07/02/24 22:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		07/02/24 15:05	07/02/24 22:54	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		07/02/24 15:05	07/02/24 22:54	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		07/02/24 15:05	07/02/24 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/02/24 15:05*	*07/02/24 22:54*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/02/24 15:05*	*07/02/24 22:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			07/02/24 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	14.9	mg/Kg			07/03/24 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**11.7**	**J**	49.7	10.9	mg/Kg		07/02/24 19:19	07/03/24 12:32	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	14.9	mg/Kg		07/02/24 19:19	07/03/24 12:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	12.4	mg/Kg		07/02/24 19:19	07/03/24 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/02/24 19:19*	*07/03/24 12:32*	*1*
o-Terphenyl	*96*		*70 - 130*	*07/02/24 19:19*	*07/03/24 12:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		4.96	0.392	mg/Kg			07/03/24 16:02	1

Client Sample ID: B-18-4'

Date Collected: 07/01/24 11:30
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/02/24 15:05	07/02/24 23:20	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/02/24 15:05	07/02/24 23:20	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/02/24 15:05	07/02/24 23:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00229	mg/Kg		07/02/24 15:05	07/02/24 23:20	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		07/02/24 15:05	07/02/24 23:20	1
Xylenes, Total	<0.00401	U	0.00401	0.00229	mg/Kg		07/02/24 15:05	07/02/24 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/02/24 15:05*	*07/02/24 23:20*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/02/24 15:05*	*07/02/24 23:20*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-18-4'
Date Collected: 07/01/24 11:30
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-7
Matrix: Solid

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	0.00229	mg/Kg			07/02/24 23:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.5**	**J**	49.8	14.9	mg/Kg			07/03/24 12:52	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	**17.5**	**J**	49.8	10.9	mg/Kg		07/02/24 19:19	07/03/24 12:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		07/02/24 19:19	07/03/24 12:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		07/02/24 19:19	07/03/24 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/02/24 19:19*	*07/03/24 12:52*	*1*
o-Terphenyl	*78*		*70 - 130*	*07/02/24 19:19*	*07/03/24 12:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.1**		4.98	0.393	mg/Kg			07/03/24 16:17	1

Client Sample ID: B-19-4'
Date Collected: 07/01/24 10:20
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		07/02/24 15:05	07/02/24 23:47	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/02/24 15:05	07/02/24 23:47	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		07/02/24 15:05	07/02/24 23:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		07/02/24 15:05	07/02/24 23:47	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		07/02/24 15:05	07/02/24 23:47	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		07/02/24 15:05	07/02/24 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/02/24 15:05*	*07/02/24 23:47*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/02/24 15:05*	*07/02/24 23:47*	*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	0.00227	mg/Kg			07/02/24 23:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**32.9**	**J**	49.9	15.0	mg/Kg			07/03/24 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**32.9**	**J**	49.9	10.9	mg/Kg		07/02/24 19:19	07/03/24 13:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		07/02/24 19:19	07/03/24 13:13	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-19-4'
Date Collected: 07/01/24 10:20
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	12.5	mg/Kg		07/02/24 19:19	07/03/24 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/02/24 19:19*	*07/03/24 13:13*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/02/24 19:19*	*07/03/24 13:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.3**		5.02	0.397	mg/Kg			07/03/24 16:23	1

Client Sample ID: B-20-4'
Date Collected: 07/01/24 10:30
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		07/02/24 15:05	07/03/24 00:14	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/02/24 15:05	07/03/24 00:14	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		07/02/24 15:05	07/03/24 00:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		07/02/24 15:05	07/03/24 00:14	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		07/02/24 15:05	07/03/24 00:14	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		07/02/24 15:05	07/03/24 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/02/24 15:05*	*07/03/24 00:14*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/02/24 15:05*	*07/03/24 00:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00227	mg/Kg			07/03/24 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	<49.7	U	49.7	14.9	mg/Kg			07/03/24 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	10.9	mg/Kg		07/02/24 19:19	07/03/24 13:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	14.9	mg/Kg		07/02/24 19:19	07/03/24 13:34	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	12.4	mg/Kg		07/02/24 19:19	07/03/24 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/02/24 19:19*	*07/03/24 13:34*	*1*
o-Terphenyl	*87*		*70 - 130*	*07/02/24 19:19*	*07/03/24 13:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.3**		5.02	0.397	mg/Kg			07/03/24 12:14	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-21-4'

Date Collected: 07/01/24 10:40
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/02/24 15:05	07/03/24 00:40	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/02/24 15:05	07/03/24 00:40	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/02/24 15:05	07/03/24 00:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/02/24 15:05	07/03/24 00:40	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/02/24 15:05	07/03/24 00:40	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/02/24 15:05	07/03/24 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/02/24 15:05*	*07/03/24 00:40*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/02/24 15:05*	*07/03/24 00:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00229	mg/Kg			07/03/24 00:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	14.9	mg/Kg			07/03/24 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	10.9	mg/Kg		07/02/24 19:19	07/03/24 13:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		07/02/24 19:19	07/03/24 13:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	12.5	mg/Kg		07/02/24 19:19	07/03/24 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/02/24 19:19*	*07/03/24 13:54*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/02/24 19:19*	*07/03/24 13:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.7**		5.01	0.396	mg/Kg			07/03/24 12:20	1

Client Sample ID: Soil Pile

Date Collected: 07/01/24 12:00
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-11
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	0.00139	mg/Kg		07/02/24 15:05	07/03/24 02:27	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/02/24 15:05	07/03/24 02:27	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		07/02/24 15:05	07/03/24 02:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00228	mg/Kg		07/02/24 15:05	07/03/24 02:27	1
o-Xylene	<0.00199	U	0.00199	0.00158	mg/Kg		07/02/24 15:05	07/03/24 02:27	1
Xylenes, Total	<0.00398	U	0.00398	0.00228	mg/Kg		07/02/24 15:05	07/03/24 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/02/24 15:05*	*07/03/24 02:27*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/02/24 15:05*	*07/03/24 02:27*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: Soil Pile

Lab Sample ID: 880-45542-11
Matrix: Solid
Date Collected: 07/01/24 12:00
Date Received: 07/02/24 11:50

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	0.00228	mg/Kg			07/03/24 02:27	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	15.0	mg/Kg			07/03/24 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	11.0	mg/Kg		07/02/24 19:19	07/03/24 14:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/02/24 19:19	07/03/24 14:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	12.5	mg/Kg		07/02/24 19:19	07/03/24 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/02/24 19:19*	*07/03/24 14:36*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/02/24 19:19*	*07/03/24 14:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**		4.99	0.394	mg/Kg			07/03/24 12:25	1

Client Sample ID: SW-6-0-4'

Lab Sample ID: 880-45542-12
Matrix: Solid
Date Collected: 07/01/24 12:20
Date Received: 07/02/24 11:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		07/02/24 13:04	07/03/24 05:05	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/02/24 13:04	07/03/24 05:05	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		07/02/24 13:04	07/03/24 05:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00226	mg/Kg		07/02/24 13:04	07/03/24 05:05	1
o-Xylene	**0.00234**		0.00198	0.00157	mg/Kg		07/02/24 13:04	07/03/24 05:05	1
Xylenes, Total	**0.00234**	**J**	0.00396	0.00226	mg/Kg		07/02/24 13:04	07/03/24 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/02/24 13:04*	*07/03/24 05:05*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/02/24 13:04*	*07/03/24 05:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00234**	**J**	0.00396	0.00226	mg/Kg			07/03/24 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	14.9	mg/Kg			07/03/24 14:56	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	**11.5**	**J**	49.7	10.9	mg/Kg		07/02/24 19:19	07/03/24 14:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	14.9	mg/Kg		07/02/24 19:19	07/03/24 14:56	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-6-0-4'

Lab Sample ID: 880-45542-12
Matrix: Solid
Date Collected: 07/01/24 12:20
Date Received: 07/02/24 11:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	12.4	mg/Kg		07/02/24 19:19	07/03/24 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/02/24 19:19*	*07/03/24 14:56*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/02/24 19:19*	*07/03/24 14:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**279**		4.97	0.393	mg/Kg			07/03/24 12:30	1

Client Sample ID: SW-7-0-4'

Lab Sample ID: 880-45542-13
Matrix: Solid
Date Collected: 07/01/24 12:30
Date Received: 07/02/24 11:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/02/24 13:04	07/03/24 05:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/02/24 13:04	07/03/24 05:26	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/02/24 13:04	07/03/24 05:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/02/24 13:04	07/03/24 05:26	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/02/24 13:04	07/03/24 05:26	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/02/24 13:04	07/03/24 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/02/24 13:04*	*07/03/24 05:26*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/02/24 13:04*	*07/03/24 05:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00228	mg/Kg			07/03/24 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	14.9	mg/Kg			07/03/24 15:17	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	10.9	mg/Kg		07/02/24 19:19	07/03/24 15:17	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	14.9	mg/Kg		07/02/24 19:19	07/03/24 15:17	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	12.4	mg/Kg		07/02/24 19:19	07/03/24 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/02/24 19:19*	*07/03/24 15:17*	*1*
o-Terphenyl	*71*		*70 - 130*	*07/02/24 19:19*	*07/03/24 15:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**181**		5.04	0.398	mg/Kg			07/03/24 12:46	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 13 - 3'

Date Collected: 06/27/24 11:00
Date Received: 06/27/24 16:51

Lab Sample ID: 890-6856-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00140	mg/Kg		07/01/24 09:10	07/01/24 12:11	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/01/24 09:10	07/01/24 12:11	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/01/24 09:10	07/01/24 12:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00230	mg/Kg		07/01/24 09:10	07/01/24 12:11	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/01/24 09:10	07/01/24 12:11	1
Xylenes, Total	<0.00403	U	0.00403	0.00230	mg/Kg		07/01/24 09:10	07/01/24 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/01/24 09:10*	*07/01/24 12:11*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/01/24 09:10*	*07/01/24 12:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00230	mg/Kg			07/01/24 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**35.8**	**J**	49.9	15.0	mg/Kg			07/01/24 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**12.6**	**J B**	49.9	10.9	mg/Kg		06/28/24 16:24	07/01/24 12:42	1
Diesel Range Organics (Over C10-C28)	**23.2**	**J**	49.9	15.0	mg/Kg		06/28/24 16:24	07/01/24 12:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	12.5	mg/Kg		06/28/24 16:24	07/01/24 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*06/28/24 16:24*	*07/01/24 12:42*	*1*
o-Terphenyl	*170*	*S1+*	*70 - 130*	*06/28/24 16:24*	*07/01/24 12:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**536**		4.95	0.391	mg/Kg			07/01/24 10:55	1

Client Sample ID: B-22

Date Collected: 07/02/24 09:00
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:53	07/05/24 12:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:53	07/05/24 12:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:53	07/05/24 12:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/05/24 08:53	07/05/24 12:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:53	07/05/24 12:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/05/24 08:53	07/05/24 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/05/24 08:53*	*07/05/24 12:27*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/05/24 08:53*	*07/05/24 12:27*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-22
Date Collected: 07/02/24 09:00
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-1
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/05/24 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	<49.8	U	49.8		mg/Kg			07/05/24 21:36	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	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/05/24 21:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1 F2	49.8		mg/Kg		07/05/24 08:39	07/05/24 21:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/05/24 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/05/24 21:36*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/05/24 21:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**273**	**F1**	4.96		mg/Kg			07/03/24 12:08	1

Client Sample ID: B-23
Date Collected: 07/02/24 09:10
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 12:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 12:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 12:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/05/24 08:53	07/05/24 12:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 12:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/05/24 08:53	07/05/24 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/05/24 08:53*	*07/05/24 12:48*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:53*	*07/05/24 12:48*	*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			07/05/24 12:48	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			07/05/24 22:37	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	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/05/24 22:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/05/24 22:37	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-23
Date Collected: 07/02/24 09:10
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/05/24 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*07/05/24 08:39*	*07/05/24 22:37*	*1*
o-Terphenyl	*74*		*70 - 130*	*07/05/24 08:39*	*07/05/24 22:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		4.96		mg/Kg			07/03/24 12:30	1

Client Sample ID: B-24
Date Collected: 07/02/24 09:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-3
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		07/05/24 08:53	07/05/24 13:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:53	07/05/24 13:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:53	07/05/24 13:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/05/24 08:53	07/05/24 13:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:53	07/05/24 13:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/05/24 08:53	07/05/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/05/24 08:53*	*07/05/24 13:08*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:53*	*07/05/24 13:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/05/24 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	<49.9	U	49.9		mg/Kg			07/05/24 22:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/05/24 22:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/05/24 22:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/05/24 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/05/24 22:58*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/05/24 22:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**402**		4.96		mg/Kg			07/03/24 12:37	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-25

Date Collected: 07/02/24 09:40
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 13:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 13:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 13:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/05/24 08:53	07/05/24 13:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 13:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/05/24 08:53	07/05/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/05/24 08:53*	*07/05/24 13:28*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:53*	*07/05/24 13:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/05/24 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	<50.0	U	50.0		mg/Kg			07/05/24 23:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/05/24 23:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/05/24 23:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/05/24 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*07/05/24 08:39*	*07/05/24 23:18*	*1*
o-Terphenyl	*74*		*70 - 130*	*07/05/24 08:39*	*07/05/24 23:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**233**		4.96		mg/Kg			07/03/24 12:45	1

Client Sample ID: B-26

Date Collected: 07/02/24 09:50
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 13:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 13:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 13:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/05/24 08:53	07/05/24 13:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 13:49	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/05/24 08:53	07/05/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/05/24 08:53*	*07/05/24 13:49*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/05/24 08:53*	*07/05/24 13:49*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-26

Date Collected: 07/02/24 09:50
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-5
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/05/24 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			07/05/24 23:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/05/24 23:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/05/24 23:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/05/24 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*07/05/24 08:39*	*07/05/24 23:39*	*1*
o-Terphenyl	*77*		*70 - 130*	*07/05/24 08:39*	*07/05/24 23:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**		4.96		mg/Kg			07/03/24 12:52	1

Client Sample ID: B-27

Date Collected: 07/02/24 10:00
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-6
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		07/05/24 08:53	07/05/24 14:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:53	07/05/24 14:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:53	07/05/24 14:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/05/24 08:53	07/05/24 14:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:53	07/05/24 14:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/05/24 08:53	07/05/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/05/24 08:53*	*07/05/24 14:09*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/05/24 08:53*	*07/05/24 14:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/05/24 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			07/05/24 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	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/05/24 23:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/05/24 23:59	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-27
Date Collected: 07/02/24 10:00
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/05/24 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/05/24 23:59*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/05/24 23:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.2**		4.95		mg/Kg			07/03/24 13:14	1

Client Sample ID: B-28
Date Collected: 07/02/24 10:10
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 14:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 14:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 14:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/05/24 08:53	07/05/24 14:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 14:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/05/24 08:53	07/05/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/05/24 08:53*	*07/05/24 14:30*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:53*	*07/05/24 14:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/05/24 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/06/24 00:19	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		07/05/24 08:39	07/06/24 00:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 00:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/05/24 08:39*	*07/06/24 00:19*	*1*
o-Terphenyl	*76*		*70 - 130*	*07/05/24 08:39*	*07/06/24 00:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.6**		4.96		mg/Kg			07/03/24 13:21	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-8

Date Collected: 07/02/24 10:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 14:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 14:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 14:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/05/24 08:53	07/05/24 14:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 14:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/05/24 08:53	07/05/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/05/24 08:53*	*07/05/24 14:50*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/05/24 08:53*	*07/05/24 14:50*	*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			07/05/24 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/06/24 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/06/24 00:39	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/06/24 00:39	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/06/24 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/05/24 08:39*	*07/06/24 00:39*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/05/24 08:39*	*07/06/24 00:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**499**		4.98		mg/Kg			07/03/24 13:28	1

Client Sample ID: SW-9

Date Collected: 07/02/24 10:30
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-9
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		07/05/24 08:53	07/05/24 15:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:53	07/05/24 15:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:53	07/05/24 15:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/05/24 08:53	07/05/24 15:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:53	07/05/24 15:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/05/24 08:53	07/05/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/05/24 08:53*	*07/05/24 15:10*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/05/24 08:53*	*07/05/24 15:10*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-9

Date Collected: 07/02/24 10:30
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-9
Matrix: Solid

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			07/05/24 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/06/24 01:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/06/24 01:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/06/24 01:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/06/24 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 01:01*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 01:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**196**		5.02		mg/Kg			07/03/24 13:35	1

Client Sample ID: SW-10

Date Collected: 07/02/24 12:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 15:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 15:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 15:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/05/24 08:53	07/05/24 15:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:53	07/05/24 15:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/05/24 08:53	07/05/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/05/24 08:53*	*07/05/24 15:31*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/05/24 08:53*	*07/05/24 15:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/05/24 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/06/24 01:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/06/24 01:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/06/24 01:21	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-10

Date Collected: 07/02/24 12:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/06/24 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/05/24 08:39*	*07/06/24 01:21*	*1*
o-Terphenyl	*85*		*70 - 130*	*07/05/24 08:39*	*07/06/24 01:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**192**		4.97		mg/Kg			07/03/24 13:43	1

Client Sample ID: SW-1A

Date Collected: 07/02/24 12:30
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:53	07/05/24 16:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:53	07/05/24 16:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:53	07/05/24 16:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/05/24 08:53	07/05/24 16:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:53	07/05/24 16:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/05/24 08:53	07/05/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/05/24 08:53*	*07/05/24 16:54*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/05/24 08:53*	*07/05/24 16:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/05/24 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			07/06/24 02:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		07/05/24 08:39	07/06/24 02:03	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		07/05/24 08:39	07/06/24 02:03	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/05/24 08:39	07/06/24 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/05/24 08:39*	*07/06/24 02:03*	*1*
o-Terphenyl	*80*		*70 - 130*	*07/05/24 08:39*	*07/06/24 02:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		4.98		mg/Kg			07/03/24 13:50	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-29

Date Collected: 07/02/24 12:40
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:56	07/05/24 12:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:56	07/05/24 12:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:56	07/05/24 12:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/05/24 08:56	07/05/24 12:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:56	07/05/24 12:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/05/24 08:56	07/05/24 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/05/24 08:56*	*07/05/24 12:32*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/05/24 08:56*	*07/05/24 12:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/05/24 12:32	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			07/06/24 02:23	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	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/06/24 02:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/06/24 02:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/06/24 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*07/05/24 08:39*	*07/06/24 02:23*	*1*
o-Terphenyl	*72*		*70 - 130*	*07/05/24 08:39*	*07/06/24 02:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		4.96		mg/Kg			07/03/24 14:12	1

Client Sample ID: B-30

Date Collected: 07/02/24 12:50
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-13
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		07/05/24 08:56	07/05/24 12:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:56	07/05/24 12:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:56	07/05/24 12:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/05/24 08:56	07/05/24 12:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:56	07/05/24 12:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/05/24 08:56	07/05/24 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/05/24 08:56*	*07/05/24 12:52*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/05/24 08:56*	*07/05/24 12:52*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-30

Date Collected: 07/02/24 12:50
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-13
Matrix: Solid

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			07/05/24 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/06/24 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/06/24 02:43	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/06/24 02:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/05/24 08:39	07/06/24 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 02:43*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 02:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.2**		5.02		mg/Kg			07/03/24 14:19	1

Client Sample ID: B-31

Date Collected: 07/02/24 13:00
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 13:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/05/24 08:56	07/05/24 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 13:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/05/24 08:56	07/05/24 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/05/24 08:56*	*07/05/24 13:13*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:56*	*07/05/24 13:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/05/24 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/06/24 03:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 03:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 03:04	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-31

Date Collected: 07/02/24 13:00
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 03:04*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 03:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**341**		4.97		mg/Kg			07/03/24 14:41	1

Client Sample ID: B-32

Date Collected: 07/02/24 13:10
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 13:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 13:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 13:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/05/24 08:56	07/05/24 13:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 13:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/05/24 08:56	07/05/24 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/05/24 08:56*	*07/05/24 13:33*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:56*	*07/05/24 13:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/05/24 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/06/24 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/06/24 03:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/06/24 03:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/06/24 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*07/05/24 08:39*	*07/06/24 03:24*	*1*
o-Terphenyl	*75*		*70 - 130*	*07/05/24 08:39*	*07/06/24 03:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.5**		5.02		mg/Kg			07/03/24 14:48	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-33

Date Collected: 07/02/24 13:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:56	07/05/24 13:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:56	07/05/24 13:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:56	07/05/24 13:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/05/24 08:56	07/05/24 13:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/05/24 08:56	07/05/24 13:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/05/24 08:56	07/05/24 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/05/24 08:56*	*07/05/24 13:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:56*	*07/05/24 13:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/05/24 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/06/24 07:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/06/24 07:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/06/24 07:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/06/24 07:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/05/24 08:39*	*07/06/24 07:03*	*1*
o-Terphenyl	*75*		*70 - 130*	*07/05/24 08:39*	*07/06/24 07:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.5**		4.99		mg/Kg			07/03/24 14:55	1

Client Sample ID: B-34

Date Collected: 07/02/24 13:30
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:56	07/05/24 14:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:56	07/05/24 14:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:56	07/05/24 14:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/05/24 08:56	07/05/24 14:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/05/24 08:56	07/05/24 14:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/05/24 08:56	07/05/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/05/24 08:56*	*07/05/24 14:14*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:56*	*07/05/24 14:14*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-34

Lab Sample ID: 890-6879-17
Matrix: Solid
Date Collected: 07/02/24 13:30
Date Received: 07/02/24 16:37

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/05/24 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/06/24 04:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/06/24 04:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/06/24 04:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/06/24 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*62*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 04:50*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 04:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		4.98		mg/Kg			07/03/24 15:02	1

Client Sample ID: B-35

Lab Sample ID: 890-6879-18
Matrix: Solid
Date Collected: 07/02/24 13:40
Date Received: 07/02/24 16:37

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		07/05/24 08:56	07/05/24 14:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:56	07/05/24 14:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:56	07/05/24 14:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/05/24 08:56	07/05/24 14:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:56	07/05/24 14:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/05/24 08:56	07/05/24 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/05/24 08:56*	*07/05/24 14:34*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/05/24 08:56*	*07/05/24 14:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/05/24 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/06/24 05:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/06/24 05:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/06/24 05:10	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-35

Date Collected: 07/02/24 13:40
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/05/24 08:39	07/06/24 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*64*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 05:10*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 05:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		5.04		mg/Kg			07/03/24 15:10	1

Client Sample ID: B-36

Date Collected: 07/02/24 13:50
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 14:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 14:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 14:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/05/24 08:56	07/05/24 14:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 14:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/05/24 08:56	07/05/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/05/24 08:56*	*07/05/24 14:55*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/05/24 08:56*	*07/05/24 14:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/05/24 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/06/24 05:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 05:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 05:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*58*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 05:30*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*07/05/24 08:39*	*07/06/24 05:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**		5.01		mg/Kg			07/03/24 15:17	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-11

Date Collected: 07/02/24 14:00
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 15:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 15:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 15:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/05/24 08:56	07/05/24 15:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 15:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/05/24 08:56	07/05/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/05/24 08:56*	*07/05/24 15:15*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:56*	*07/05/24 15:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/05/24 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/06/24 05:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 05:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 05:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/05/24 08:39	07/06/24 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*07/05/24 08:39*	*07/06/24 05:52*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/05/24 08:39*	*07/06/24 05:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		5.05		mg/Kg			07/03/24 15:24	1

Client Sample ID: SW-12

Date Collected: 07/02/24 14:10
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 15:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 15:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 15:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/05/24 08:56	07/05/24 15:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 15:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/05/24 08:56	07/05/24 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/05/24 08:56*	*07/05/24 15:36*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/05/24 08:56*	*07/05/24 15:36*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-12

Date Collected: 07/02/24 14:10
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-21
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/05/24 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/06/24 10:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/05/24 08:44	07/06/24 10:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		07/05/24 08:44	07/06/24 10:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/05/24 08:44	07/06/24 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/05/24 08:44*	*07/06/24 10:32*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/05/24 08:44*	*07/06/24 10:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.6**		4.97		mg/Kg			07/03/24 16:28	1

Client Sample ID: SW-13

Date Collected: 07/02/24 14:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-22
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		07/05/24 08:56	07/05/24 17:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:56	07/05/24 17:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:56	07/05/24 17:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/05/24 08:56	07/05/24 17:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/05/24 08:56	07/05/24 17:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/05/24 08:56	07/05/24 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/05/24 08:56*	*07/05/24 17:09*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/05/24 08:56*	*07/05/24 17:09*	*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			07/05/24 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/06/24 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/05/24 08:44	07/06/24 11:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/05/24 08:44	07/06/24 11:33	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-13

Date Collected: 07/02/24 14:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/05/24 08:44	07/06/24 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/05/24 08:44*	*07/06/24 11:33*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/05/24 08:44*	*07/06/24 11:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		4.98		mg/Kg			07/03/24 16:33	1

Client Sample ID: B - 37 - 5'

Date Collected: 07/09/24 09:00
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:18	07/11/24 11:37	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:18	07/11/24 11:37	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:18	07/11/24 11:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:18	07/11/24 11:37	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:18	07/11/24 11:37	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:18	07/11/24 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/11/24 08:18*	*07/11/24 11:37*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/11/24 08:18*	*07/11/24 11:37*	*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	0.00228	mg/Kg			07/11/24 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	15.1	mg/Kg			07/11/24 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 *1	49.9	14.5	mg/Kg		07/10/24 14:37	07/11/24 12:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	15.1	mg/Kg		07/10/24 14:37	07/11/24 12:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.1	mg/Kg		07/10/24 14:37	07/11/24 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*07/10/24 14:37*	*07/11/24 12:20*	*1*
o-Terphenyl	*72*		*70 - 130*	*07/10/24 14:37*	*07/11/24 12:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.2**		4.96	0.392	mg/Kg			07/11/24 11:02	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 38 - 5'

Date Collected: 07/09/24 09:10
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		07/11/24 08:18	07/11/24 11:57	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/11/24 08:18	07/11/24 11:57	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/11/24 08:18	07/11/24 11:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:18	07/11/24 11:57	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/11/24 08:18	07/11/24 11:57	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:18	07/11/24 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*07/11/24 08:18*	*07/11/24 11:57*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/11/24 08:18*	*07/11/24 11:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			07/11/24 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	15.0	mg/Kg			07/11/24 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6	14.4	mg/Kg		07/10/24 14:37	07/11/24 13:13	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	15.0	mg/Kg		07/10/24 14:37	07/11/24 13:13	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	15.0	mg/Kg		07/10/24 14:37	07/11/24 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/10/24 14:37*	*07/11/24 13:13*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/10/24 14:37*	*07/11/24 13:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.4**		4.96	0.392	mg/Kg			07/11/24 11:28	1

Client Sample ID: B - 39 - 5'

Date Collected: 07/09/24 09:20
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		07/11/24 08:18	07/11/24 12:18	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/11/24 08:18	07/11/24 12:18	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		07/11/24 08:18	07/11/24 12:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		07/11/24 08:18	07/11/24 12:18	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		07/11/24 08:18	07/11/24 12:18	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		07/11/24 08:18	07/11/24 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*07/11/24 08:18*	*07/11/24 12:18*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/11/24 08:18*	*07/11/24 12:18*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 39 - 5'

Date Collected: 07/09/24 09:20
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-3
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			07/11/24 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg			07/11/24 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	14.4	mg/Kg		07/10/24 14:37	07/11/24 13:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		07/10/24 14:37	07/11/24 13:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		07/10/24 14:37	07/11/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*07/10/24 14:37*	*07/11/24 13:30*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*07/10/24 14:37*	*07/11/24 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.6**		4.98	0.393	mg/Kg			07/11/24 11:34	1

Client Sample ID: B - 40 - 5'

Date Collected: 07/09/24 09:30
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:18	07/11/24 12:38	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:18	07/11/24 12:38	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:18	07/11/24 12:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:18	07/11/24 12:38	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:18	07/11/24 12:38	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:18	07/11/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*07/11/24 08:18*	*07/11/24 12:38*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*07/11/24 08:18*	*07/11/24 12:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00228	mg/Kg			07/11/24 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg			07/11/24 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	14.4	mg/Kg		07/10/24 14:37	07/11/24 13:48	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		07/10/24 14:37	07/11/24 13:48	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 40 - 5'

Date Collected: 07/09/24 09:30
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		07/10/24 14:37	07/11/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*07/10/24 14:37*	*07/11/24 13:48*	*1*
o-Terphenyl	*78*		*70 - 130*	*07/10/24 14:37*	*07/11/24 13:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.0**		5.02	0.397	mg/Kg			07/11/24 11:39	1

Client Sample ID: B - 41 - 5'

Date Collected: 07/09/24 09:40
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:18	07/11/24 12:59	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:18	07/11/24 12:59	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:18	07/11/24 12:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:18	07/11/24 12:59	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:18	07/11/24 12:59	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:18	07/11/24 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*07/11/24 08:18*	*07/11/24 12:59*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*07/11/24 08:18*	*07/11/24 12:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00229	mg/Kg			07/11/24 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.1	mg/Kg			07/11/24 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	14.5	mg/Kg		07/10/24 14:37	07/11/24 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		07/10/24 14:37	07/11/24 14:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/10/24 14:37	07/11/24 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/10/24 14:37*	*07/11/24 14:05*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/10/24 14:37*	*07/11/24 14:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**252**		4.95	0.391	mg/Kg			07/11/24 11:44	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 42 - 5'

Date Collected: 07/09/24 09:50
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:18	07/11/24 13:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:18	07/11/24 13:19	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:18	07/11/24 13:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:18	07/11/24 13:19	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:18	07/11/24 13:19	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:18	07/11/24 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*07/11/24 08:18*	*07/11/24 13:19*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*07/11/24 08:18*	*07/11/24 13:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00228	mg/Kg			07/11/24 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	15.1	mg/Kg			07/11/24 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	14.5	mg/Kg		07/10/24 14:37	07/11/24 14:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		07/10/24 14:37	07/11/24 14:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		07/10/24 14:37	07/11/24 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/10/24 14:37*	*07/11/24 14:23*	*1*
o-Terphenyl	*77*		*70 - 130*	*07/10/24 14:37*	*07/11/24 14:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**600**		4.96	0.392	mg/Kg			07/11/24 12:00	1

Client Sample ID: B - 43 - 5'

Date Collected: 07/09/24 10:00
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		07/11/24 08:18	07/11/24 13:40	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/11/24 08:18	07/11/24 13:40	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/11/24 08:18	07/11/24 13:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:18	07/11/24 13:40	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/11/24 08:18	07/11/24 13:40	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:18	07/11/24 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*07/11/24 08:18*	*07/11/24 13:40*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*07/11/24 08:18*	*07/11/24 13:40*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 43 - 5'

Date Collected: 07/09/24 10:00
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-7
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			07/11/24 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	15.1	mg/Kg			07/11/24 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	14.5	mg/Kg		07/10/24 14:37	07/11/24 14:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		07/10/24 14:37	07/11/24 14:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		07/10/24 14:37	07/11/24 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/10/24 14:37*	*07/11/24 14:40*	*1*
o-Terphenyl	*80*		*70 - 130*	*07/10/24 14:37*	*07/11/24 14:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**228**		4.98	0.393	mg/Kg			07/11/24 12:05	1

Client Sample ID: B - 44 - 5'

Date Collected: 07/09/24 10:10
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		07/11/24 08:18	07/11/24 14:00	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/11/24 08:18	07/11/24 14:00	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		07/11/24 08:18	07/11/24 14:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		07/11/24 08:18	07/11/24 14:00	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		07/11/24 08:18	07/11/24 14:00	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		07/11/24 08:18	07/11/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*07/11/24 08:18*	*07/11/24 14:00*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/11/24 08:18*	*07/11/24 14:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			07/11/24 14:00	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	15.1	mg/Kg			07/11/24 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	14.5	mg/Kg		07/10/24 14:37	07/11/24 14:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		07/10/24 14:37	07/11/24 14:57	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 44 - 5'

Date Collected: 07/09/24 10:10
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/10/24 14:37	07/11/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*07/10/24 14:37*	*07/11/24 14:57*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/10/24 14:37*	*07/11/24 14:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**236**		5.02	0.397	mg/Kg			07/11/24 12:10	1

Client Sample ID: SW - 14 - 0 - 5'

Date Collected: 07/09/24 10:20
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:20	07/11/24 10:54	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:20	07/11/24 10:54	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:20	07/11/24 10:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:20	07/11/24 10:54	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:20	07/11/24 10:54	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:20	07/11/24 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/11/24 08:20*	*07/11/24 10:54*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/11/24 08:20*	*07/11/24 10:54*	*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	0.00228	mg/Kg			07/11/24 10:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg			07/11/24 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	14.4	mg/Kg		07/10/24 14:37	07/11/24 15:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		07/10/24 14:37	07/11/24 15:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		07/10/24 14:37	07/11/24 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/10/24 14:37*	*07/11/24 15:14*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/10/24 14:37*	*07/11/24 15:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.7**		4.97	0.393	mg/Kg			07/11/24 12:15	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW - 15 - 0 - 5'

Lab Sample ID: 890-6921-10
Matrix: Solid
Date Collected: 07/09/24 10:30
Date Received: 07/09/24 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		07/11/24 08:20	07/11/24 11:14	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/11/24 08:20	07/11/24 11:14	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/11/24 08:20	07/11/24 11:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:20	07/11/24 11:14	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/11/24 08:20	07/11/24 11:14	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:20	07/11/24 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/11/24 08:20*	*07/11/24 11:14*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/11/24 08:20*	*07/11/24 11:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			07/11/24 11:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg			07/11/24 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	14.4	mg/Kg		07/10/24 14:37	07/11/24 15:31	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		07/10/24 14:37	07/11/24 15:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		07/10/24 14:37	07/11/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/10/24 14:37*	*07/11/24 15:31*	*1*
o-Terphenyl	*87*		*70 - 130*	*07/10/24 14:37*	*07/11/24 15:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**419**		5.00	0.395	mg/Kg			07/11/24 12:21	1

Client Sample ID: B - 7A - 6'

Lab Sample ID: 890-6921-11
Matrix: Solid
Date Collected: 07/08/24 11:30
Date Received: 07/09/24 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		07/11/24 08:20	07/11/24 11:35	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/11/24 08:20	07/11/24 11:35	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		07/11/24 08:20	07/11/24 11:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		07/11/24 08:20	07/11/24 11:35	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		07/11/24 08:20	07/11/24 11:35	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		07/11/24 08:20	07/11/24 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/11/24 08:20*	*07/11/24 11:35*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/11/24 08:20*	*07/11/24 11:35*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 7A - 6'

Lab Sample ID: 890-6921-11
Matrix: Solid
Date Collected: 07/08/24 11:30
Date Received: 07/09/24 16:53

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			07/11/24 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg			07/12/24 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	14.4	mg/Kg		07/12/24 10:47	07/12/24 21:40	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		07/12/24 10:47	07/12/24 21:40	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		07/12/24 10:47	07/12/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/12/24 10:47*	*07/12/24 21:40*	*1*
o-Terphenyl	*70*		*70 - 130*	*07/12/24 10:47*	*07/12/24 21:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.7**	**F1**	5.05	0.399	mg/Kg			07/11/24 12:26	1

Client Sample ID: SW - 16 - 0 - 4'

Lab Sample ID: 890-6921-12
Matrix: Solid
Date Collected: 07/09/24 10:40
Date Received: 07/09/24 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:20	07/11/24 11:55	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:20	07/11/24 11:55	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:20	07/11/24 11:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:20	07/11/24 11:55	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:20	07/11/24 11:55	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:20	07/11/24 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/11/24 08:20*	*07/11/24 11:55*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/11/24 08:20*	*07/11/24 11:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00228	mg/Kg			07/11/24 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	15.1	mg/Kg			07/12/24 21:55	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	<49.9	U	49.9	14.5	mg/Kg		07/12/24 10:47	07/12/24 21:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.1	mg/Kg		07/12/24 10:47	07/12/24 21:55	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW - 16 - 0 - 4'

Lab Sample ID: 890-6921-12
Matrix: Solid
Date Collected: 07/09/24 10:40
Date Received: 07/09/24 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.1	mg/Kg		07/12/24 10:47	07/12/24 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/12/24 10:47*	*07/12/24 21:55*	*1*
o-Terphenyl	*78*		*70 - 130*	*07/12/24 10:47*	*07/12/24 21:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**479**		5.03	0.397	mg/Kg			07/11/24 12:41	1

Client Sample ID: SW - 17 - 0 - 4'

Lab Sample ID: 890-6921-13
Matrix: Solid
Date Collected: 07/09/24 10:50
Date Received: 07/09/24 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:20	07/11/24 12:16	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:20	07/11/24 12:16	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:20	07/11/24 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:20	07/11/24 12:16	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:20	07/11/24 12:16	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:20	07/11/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/11/24 08:20*	*07/11/24 12:16*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/11/24 08:20*	*07/11/24 12:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00229	mg/Kg			07/11/24 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	<49.8	U	49.8	15.1	mg/Kg			07/12/24 22:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.5	mg/Kg		07/12/24 10:47	07/12/24 22:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		07/12/24 10:47	07/12/24 22:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		07/12/24 10:47	07/12/24 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/12/24 10:47*	*07/12/24 22:10*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 22:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		5.04	0.398	mg/Kg			07/11/24 12:47	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 45 - 4'

Date Collected: 07/09/24 13:30
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:20	07/11/24 12:36	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:20	07/11/24 12:36	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:20	07/11/24 12:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:20	07/11/24 12:36	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:20	07/11/24 12:36	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:20	07/11/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/11/24 08:20*	*07/11/24 12:36*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/11/24 08:20*	*07/11/24 12:36*	*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	0.00228	mg/Kg			07/11/24 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.1	mg/Kg			07/12/24 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		07/12/24 10:47	07/12/24 22:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 10:47	07/12/24 22:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 10:47	07/12/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/12/24 10:47*	*07/12/24 22:25*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/12/24 10:47*	*07/12/24 22:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		5.00	0.395	mg/Kg			07/11/24 13:02	1

Client Sample ID: B - 46 - 4'

Date Collected: 07/09/24 15:00
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:22	07/11/24 11:06	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:22	07/11/24 11:06	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:22	07/11/24 11:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:22	07/11/24 11:06	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:22	07/11/24 11:06	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:22	07/11/24 11:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/11/24 08:22*	*07/11/24 11:06*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/11/24 08:22*	*07/11/24 11:06*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 46 - 4'

Date Collected: 07/09/24 15:00
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-15
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00228	mg/Kg			07/11/24 11:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	15.1	mg/Kg			07/12/24 22:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	14.5	mg/Kg		07/12/24 10:47	07/12/24 22:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.1	mg/Kg		07/12/24 10:47	07/12/24 22:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.1	mg/Kg		07/12/24 10:47	07/12/24 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*07/12/24 10:47*	*07/12/24 22:41*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		5.02	0.397	mg/Kg			07/11/24 13:08	1

Client Sample ID: B - 47 - 4'

Date Collected: 07/09/24 15:10
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		07/11/24 08:22	07/11/24 11:26	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/11/24 08:22	07/11/24 11:26	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/11/24 08:22	07/11/24 11:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:22	07/11/24 11:26	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/11/24 08:22	07/11/24 11:26	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:22	07/11/24 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/11/24 08:22*	*07/11/24 11:26*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/11/24 08:22*	*07/11/24 11:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			07/11/24 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	15.2	mg/Kg			07/12/24 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	14.6	mg/Kg		07/12/24 10:47	07/12/24 22:56	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	15.2	mg/Kg		07/12/24 10:47	07/12/24 22:56	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 47 - 4'

Lab Sample ID: 890-6921-16
Matrix: Solid
Date Collected: 07/09/24 15:10
Date Received: 07/09/24 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	15.2	mg/Kg		07/12/24 10:47	07/12/24 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*07/12/24 10:47*	*07/12/24 22:56*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 22:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		4.95	0.391	mg/Kg			07/11/24 13:13	1

Client Sample ID: B - 48 - 4'

Lab Sample ID: 890-6921-17
Matrix: Solid
Date Collected: 07/09/24 13:40
Date Received: 07/09/24 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		07/11/24 08:22	07/11/24 11:47	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/11/24 08:22	07/11/24 11:47	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		07/11/24 08:22	07/11/24 11:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		07/11/24 08:22	07/11/24 11:47	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		07/11/24 08:22	07/11/24 11:47	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		07/11/24 08:22	07/11/24 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/11/24 08:22*	*07/11/24 11:47*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/11/24 08:22*	*07/11/24 11:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			07/11/24 11:47	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	15.2	mg/Kg			07/12/24 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	14.6	mg/Kg		07/12/24 10:47	07/12/24 23:11	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	15.2	mg/Kg		07/12/24 10:47	07/12/24 23:11	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	15.2	mg/Kg		07/12/24 10:47	07/12/24 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/12/24 10:47*	*07/12/24 23:11*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 23:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**338**		4.97	0.393	mg/Kg			07/11/24 13:18	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 49 - 4'

Date Collected: 07/09/24 15:20
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:22	07/11/24 12:07	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:22	07/11/24 12:07	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:22	07/11/24 12:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:22	07/11/24 12:07	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:22	07/11/24 12:07	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:22	07/11/24 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/11/24 08:22*	*07/11/24 12:07*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/11/24 08:22*	*07/11/24 12:07*	*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	0.00228	mg/Kg			07/11/24 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	15.1	mg/Kg			07/12/24 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	14.5	mg/Kg		07/12/24 10:47	07/12/24 23:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	15.1	mg/Kg		07/12/24 10:47	07/12/24 23:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	15.1	mg/Kg		07/12/24 10:47	07/12/24 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*07/12/24 10:47*	*07/12/24 23:26*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 23:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**221**		5.03	0.397	mg/Kg			07/11/24 13:23	1

Client Sample ID: B - 50 - 4'

Date Collected: 07/09/24 13:50
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:22	07/11/24 12:27	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:22	07/11/24 12:27	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:22	07/11/24 12:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:22	07/11/24 12:27	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:22	07/11/24 12:27	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:22	07/11/24 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/11/24 08:22*	*07/11/24 12:27*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/11/24 08:22*	*07/11/24 12:27*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 50 - 4'

Date Collected: 07/09/24 13:50
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-19
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00229	mg/Kg			07/11/24 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	<50.0	U	50.0	15.1	mg/Kg			07/12/24 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		07/12/24 10:47	07/12/24 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 10:47	07/12/24 23:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 10:47	07/12/24 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 23:41*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 23:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**195**		4.97	0.393	mg/Kg			07/11/24 13:28	1

Client Sample ID: B - 51 - 4'

Date Collected: 07/09/24 14:00
Date Received: 07/09/24 16:53

Lab Sample ID: 890-6921-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:22	07/11/24 12:48	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:22	07/11/24 12:48	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:22	07/11/24 12:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:22	07/11/24 12:48	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:22	07/11/24 12:48	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/11/24 08:22	07/11/24 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/11/24 08:22*	*07/11/24 12:48*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/11/24 08:22*	*07/11/24 12:48*	*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	0.00228	mg/Kg			07/11/24 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	15.1	mg/Kg			07/12/24 23:56	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	<49.9	U	49.9	14.5	mg/Kg		07/12/24 10:47	07/12/24 23:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.1	mg/Kg		07/12/24 10:47	07/12/24 23:56	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B - 51 - 4'

Lab Sample ID: 890-6921-20
Matrix: Solid
Date Collected: 07/09/24 14:00
Date Received: 07/09/24 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.1	mg/Kg		07/12/24 10:47	07/12/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*07/12/24 10:47*	*07/12/24 23:56*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 23:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**204**		5.04	0.398	mg/Kg			07/11/24 13:34	1

Client Sample ID: B - 52 - 4'

Lab Sample ID: 890-6921-21
Matrix: Solid
Date Collected: 07/09/24 14:10
Date Received: 07/09/24 16:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		07/11/24 08:22	07/11/24 13:08	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/11/24 08:22	07/11/24 13:08	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/11/24 08:22	07/11/24 13:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:22	07/11/24 13:08	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/11/24 08:22	07/11/24 13:08	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		07/11/24 08:22	07/11/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/11/24 08:22*	*07/11/24 13:08*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/11/24 08:22*	*07/11/24 13:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			07/11/24 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	15.1	mg/Kg			07/12/24 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.5	mg/Kg		07/12/24 10:47	07/12/24 19:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		07/12/24 10:47	07/12/24 19:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		07/12/24 10:47	07/12/24 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 19:50*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*07/12/24 10:47*	*07/12/24 19:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**	**F1**	5.02	0.397	mg/Kg			07/11/24 13:52	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-53-4

Date Collected: 07/10/24 15:00
Date Received: 07/11/24 08:19

Lab Sample ID: 890-6926-1
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	0.00138	mg/Kg		07/12/24 08:09	07/12/24 11:54	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/12/24 08:09	07/12/24 11:54	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		07/12/24 08:09	07/12/24 11:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		07/12/24 08:09	07/12/24 11:54	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		07/12/24 08:09	07/12/24 11:54	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		07/12/24 08:09	07/12/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/12/24 08:09*	*07/12/24 11:54*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/12/24 08:09*	*07/12/24 11:54*	*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	0.00227	mg/Kg			07/12/24 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.1**		49.8	15.1	mg/Kg			07/12/24 15:43	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	14.5	mg/Kg		07/12/24 10:17	07/12/24 15:43	1
Diesel Range Organics (Over C10-C28)	**76.1**		49.8	15.1	mg/Kg		07/12/24 10:17	07/12/24 15:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		07/12/24 10:17	07/12/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*07/12/24 10:17*	*07/12/24 15:43*	*1*
o-Terphenyl	*58*	*S1-*	*70 - 130*	*07/12/24 10:17*	*07/12/24 15:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**307**		5.02	0.397	mg/Kg			07/12/24 10:13	1

Client Sample ID: B-55-4

Date Collected: 07/10/24 15:20
Date Received: 07/11/24 08:19

Lab Sample ID: 890-6926-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		07/12/24 08:09	07/12/24 12:14	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/12/24 08:09	07/12/24 12:14	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		07/12/24 08:09	07/12/24 12:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		07/12/24 08:09	07/12/24 12:14	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		07/12/24 08:09	07/12/24 12:14	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		07/12/24 08:09	07/12/24 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/12/24 08:09*	*07/12/24 12:14*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*07/12/24 08:09*	*07/12/24 12:14*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-55-4

Date Collected: 07/10/24 15:20
Date Received: 07/11/24 08:19

Lab Sample ID: 890-6926-3
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00227	mg/Kg			07/12/24 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	15.1	mg/Kg			07/12/24 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	14.5	mg/Kg		07/12/24 10:17	07/12/24 16:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.1	mg/Kg		07/12/24 10:17	07/12/24 16:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.1	mg/Kg		07/12/24 10:17	07/12/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*07/12/24 10:17*	*07/12/24 16:02*	*1*
o-Terphenyl	*58*	*S1-*	*70 - 130*	*07/12/24 10:17*	*07/12/24 16:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.5**		4.97	0.393	mg/Kg			07/12/24 10:18	1

Client Sample ID: B-56-4

Date Collected: 07/10/24 15:30
Date Received: 07/11/24 08:19

Lab Sample ID: 890-6926-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		07/12/24 08:09	07/12/24 12:35	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/12/24 08:09	07/12/24 12:35	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		07/12/24 08:09	07/12/24 12:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		07/12/24 08:09	07/12/24 12:35	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		07/12/24 08:09	07/12/24 12:35	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		07/12/24 08:09	07/12/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/12/24 08:09*	*07/12/24 12:35*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/12/24 08:09*	*07/12/24 12:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			07/12/24 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	15.1	mg/Kg			07/12/24 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 *1	49.8	14.5	mg/Kg		07/12/24 11:55	07/12/24 14:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1 *1	49.8	15.1	mg/Kg		07/12/24 11:55	07/12/24 14:51	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-56-4
Date Collected: 07/10/24 15:30
Date Received: 07/11/24 08:19

Lab Sample ID: 890-6926-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		07/12/24 11:55	07/12/24 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/12/24 11:55*	*07/12/24 14:51*	*1*
o-Terphenyl	*75*		*70 - 130*	*07/12/24 11:55*	*07/12/24 14:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		5.00	0.395	mg/Kg			07/12/24 10:23	1

Client Sample ID: B-57-4
Date Collected: 07/10/24 15:40
Date Received: 07/11/24 08:19

Lab Sample ID: 890-6926-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/12/24 08:09	07/12/24 12:55	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/12/24 08:09	07/12/24 12:55	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/12/24 08:09	07/12/24 12:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		07/12/24 08:09	07/12/24 12:55	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/12/24 08:09	07/12/24 12:55	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		07/12/24 08:09	07/12/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/12/24 08:09*	*07/12/24 12:55*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/12/24 08:09*	*07/12/24 12:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00228	mg/Kg			07/12/24 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	15.2	mg/Kg			07/12/24 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1	14.6	mg/Kg		07/12/24 11:55	07/12/24 15:43	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1	15.2	mg/Kg		07/12/24 11:55	07/12/24 15:43	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	15.2	mg/Kg		07/12/24 11:55	07/12/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/12/24 11:55*	*07/12/24 15:43*	*1*
o-Terphenyl	*73*		*70 - 130*	*07/12/24 11:55*	*07/12/24 15:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94.5**		5.05	0.399	mg/Kg			07/12/24 10:28	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-58-4

Date Collected: 07/10/24 15:50
Date Received: 07/11/24 08:19

Lab Sample ID: 890-6926-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		07/12/24 08:09	07/12/24 13:16	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/12/24 08:09	07/12/24 13:16	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		07/12/24 08:09	07/12/24 13:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		07/12/24 08:09	07/12/24 13:16	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		07/12/24 08:09	07/12/24 13:16	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		07/12/24 08:09	07/12/24 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/12/24 08:09*	*07/12/24 13:16*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/12/24 08:09*	*07/12/24 13:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			07/12/24 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.1	mg/Kg			07/12/24 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	14.5	mg/Kg		07/12/24 11:55	07/12/24 16:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	15.1	mg/Kg		07/12/24 11:55	07/12/24 16:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 11:55	07/12/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/12/24 11:55*	*07/12/24 16:02*	*1*
o-Terphenyl	*80*		*70 - 130*	*07/12/24 11:55*	*07/12/24 16:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.9**		5.03	0.397	mg/Kg			07/12/24 10:44	1

Client Sample ID: B-59-4

Date Collected: 07/10/24 16:00
Date Received: 07/11/24 08:19

Lab Sample ID: 890-6926-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		07/12/24 08:09	07/12/24 13:36	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/12/24 08:09	07/12/24 13:36	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/12/24 08:09	07/12/24 13:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		07/12/24 08:09	07/12/24 13:36	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/12/24 08:09	07/12/24 13:36	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		07/12/24 08:09	07/12/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/12/24 08:09*	*07/12/24 13:36*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/12/24 08:09*	*07/12/24 13:36*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-59-4

Lab Sample ID: 890-6926-7
Matrix: Solid
Date Collected: 07/10/24 16:00
Date Received: 07/11/24 08:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			07/12/24 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	15.2	mg/Kg			07/12/24 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *1	50.3	14.6	mg/Kg		07/12/24 11:55	07/12/24 16:20	1
Diesel Range Organics (Over C10-C28)	<50.3	U *1	50.3	15.2	mg/Kg		07/12/24 11:55	07/12/24 16:20	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	15.2	mg/Kg		07/12/24 11:55	07/12/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/12/24 11:55*	*07/12/24 16:20*	*1*
o-Terphenyl	*76*		*70 - 130*	*07/12/24 11:55*	*07/12/24 16:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**309**		5.04	0.398	mg/Kg			07/12/24 10:49	1

Client Sample ID: SW-20-0-4

Lab Sample ID: 890-6926-10
Matrix: Solid
Date Collected: 07/10/24 16:30
Date Received: 07/11/24 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		07/12/24 08:09	07/12/24 13:57	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/12/24 08:09	07/12/24 13:57	1
Ethylbenzene	<0.00201	U	0.00201	0.00110	mg/Kg		07/12/24 08:09	07/12/24 13:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00230	mg/Kg		07/12/24 08:09	07/12/24 13:57	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		07/12/24 08:09	07/12/24 13:57	1
Xylenes, Total	<0.00402	U	0.00402	0.00230	mg/Kg		07/12/24 08:09	07/12/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/12/24 08:09*	*07/12/24 13:57*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/12/24 08:09*	*07/12/24 13:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00230	mg/Kg			07/12/24 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.1**	**J**	49.7	15.0	mg/Kg			07/12/24 16:37	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	<49.7	U *1	49.7	14.4	mg/Kg		07/12/24 11:55	07/12/24 16:37	1
Diesel Range Organics (Over C10-C28)	**17.1**	**J B *1**	49.7	15.0	mg/Kg		07/12/24 11:55	07/12/24 16:37	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-20-0-4

Lab Sample ID: 890-6926-10
Matrix: Solid
Date Collected: 07/10/24 16:30
Date Received: 07/11/24 08:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		07/12/24 11:55	07/12/24 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*07/12/24 11:55*	*07/12/24 16:37*	*1*
o-Terphenyl	*70*		*70 - 130*	*07/12/24 11:55*	*07/12/24 16:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**416**		5.00	0.395	mg/Kg			07/12/24 11:05	1

Client Sample ID: B-54-4

Lab Sample ID: 890-6929-1
Matrix: Solid
Date Collected: 07/11/24 09:30
Date Received: 07/11/24 14:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		07/12/24 08:09	07/12/24 14:17	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/12/24 08:09	07/12/24 14:17	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		07/12/24 08:09	07/12/24 14:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		07/12/24 08:09	07/12/24 14:17	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		07/12/24 08:09	07/12/24 14:17	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		07/12/24 08:09	07/12/24 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/12/24 08:09*	*07/12/24 14:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/12/24 08:09*	*07/12/24 14:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00227	mg/Kg			07/12/24 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	15.1	mg/Kg			07/12/24 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	14.5	mg/Kg		07/12/24 10:17	07/12/24 16:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 10:17	07/12/24 16:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 10:17	07/12/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*07/12/24 10:17*	*07/12/24 16:20*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*07/12/24 10:17*	*07/12/24 16:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**		5.02	0.397	mg/Kg			07/12/24 11:10	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-18-4

Date Collected: 07/11/24 09:40
Date Received: 07/11/24 14:47

Lab Sample ID: 890-6929-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		07/12/24 08:09	07/12/24 14:38	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/12/24 08:09	07/12/24 14:38	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		07/12/24 08:09	07/12/24 14:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		07/12/24 08:09	07/12/24 14:38	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		07/12/24 08:09	07/12/24 14:38	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		07/12/24 08:09	07/12/24 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/12/24 08:09*	*07/12/24 14:38*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/12/24 08:09*	*07/12/24 14:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00227	mg/Kg			07/12/24 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	15.0	mg/Kg			07/12/24 16:37	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	<49.6	U *1	49.6	14.4	mg/Kg		07/12/24 10:17	07/12/24 16:37	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	15.0	mg/Kg		07/12/24 10:17	07/12/24 16:37	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	15.0	mg/Kg		07/12/24 10:17	07/12/24 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*07/12/24 10:17*	*07/12/24 16:37*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*07/12/24 10:17*	*07/12/24 16:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		4.95	0.391	mg/Kg			07/12/24 11:15	1

Client Sample ID: SW-19-4

Date Collected: 07/11/24 09:50
Date Received: 07/11/24 14:47

Lab Sample ID: 890-6929-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		07/12/24 08:09	07/12/24 14:58	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/12/24 08:09	07/12/24 14:58	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		07/12/24 08:09	07/12/24 14:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		07/12/24 08:09	07/12/24 14:58	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		07/12/24 08:09	07/12/24 14:58	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		07/12/24 08:09	07/12/24 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/12/24 08:09*	*07/12/24 14:58*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/12/24 08:09*	*07/12/24 14:58*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-19-4

Date Collected: 07/11/24 09:50
Date Received: 07/11/24 14:47

Lab Sample ID: 890-6929-3

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			07/12/24 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg			07/12/24 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	14.4	mg/Kg		07/12/24 10:17	07/12/24 16:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		07/12/24 10:17	07/12/24 16:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		07/12/24 10:17	07/12/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/12/24 10:17*	*07/12/24 16:54*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*07/12/24 10:17*	*07/12/24 16:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**		4.97	0.393	mg/Kg			07/12/24 11:21	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-45311-1	SW-1-0-2.5'	124	109
880-45311-2	SW-2-0-2.5'	102	87
880-45311-3	B-1-2.5'	102	87
880-45311-4	B-2-2.5'	100	86
880-45311-5	B-3-2.5'	118	113
880-45311-6	B-4-2.5'	97	107
880-45311-7	B-5-2.5'	114	112
880-45355-1	SW-3-0-6'	90	89
880-45355-1 MS	SW-3-0-6'	114	108
880-45355-1 MSD	SW-3-0-6'	109	112
880-45355-2	SW-4-0-6'	89	88
880-45355-3	SW-5-0-6'	93	87
880-45355-4	B-6-6'	90	86
880-45355-5	B-7-6'	78	78
880-45355-6	B-8-6'	94	82
880-45355-7	B-9-3'	94	85
880-45355-8	B-10-3'	91	86
880-45542-1	B-11-4'	114	87
880-45542-1 MS	B-11-4'	92	109
880-45542-1 MSD	B-11-4'	102	85
880-45542-2	B-12-4'	115	90
880-45542-3	B-14-4'	102	95
880-45542-4	B-15-4'	111	83
880-45542-5	B-16-4'	121	93
880-45542-6	B-17-4'	113	85
880-45542-7	B-18-4'	119	89
880-45542-8	B-19-4'	104	93
880-45542-9	B-20-4'	105	88
880-45542-10	B-21-4'	115	90
880-45542-11	Soil Pile	110	91
880-45542-12	SW-6-0-4'	116	92
880-45542-13	SW-7-0-4'	115	92
890-6856-1	B - 13 - 3'	107	90
890-6856-1 MS	B - 13 - 3'	103	93
890-6856-1 MSD	B - 13 - 3'	100	91
890-6879-1	B-22	109	93
890-6879-2	B-23	114	92
890-6879-3	B-24	114	92
890-6879-4	B-25	113	92
890-6879-5	B-26	113	91
890-6879-6	B-27	112	91
890-6879-7	B-28	119	92
890-6879-8	SW-8	112	91
890-6879-9	SW-9	113	91
890-6879-10	SW-10	112	90
890-6879-11	SW-1A	109	90
890-6879-12	B-29	116	93
890-6879-12 MS	B-29	106	93
890-6879-12 MSD	B-29	108	94

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-6879-13	B-30	116	93
890-6879-14	B-31	115	92
890-6879-15	B-32	114	92
890-6879-16	B-33	116	92
890-6879-17	B-34	115	92
890-6879-18	B-35	114	91
890-6879-19	B-36	114	91
890-6879-20	SW-11	115	92
890-6879-21	SW-12	114	91
890-6879-22	SW-13	113	92
890-6921-1	B - 37 - 5'	105	103
890-6921-1 MS	B - 37 - 5'	131 S1+	104
890-6921-1 MSD	B - 37 - 5'	123	101
890-6921-2	B - 38 - 5'	134 S1+	109
890-6921-3	B - 39 - 5'	132 S1+	109
890-6921-4	B - 40 - 5'	130	110
890-6921-5	B - 41 - 5'	134 S1+	111
890-6921-6	B - 42 - 5'	137 S1+	108
890-6921-7	B - 43 - 5'	138 S1+	109
890-6921-8	B - 44 - 5'	132 S1+	107
890-6921-9	SW - 14 - 0 - 5'	105	89
890-6921-9 MS	SW - 14 - 0 - 5'	99	93
890-6921-9 MSD	SW - 14 - 0 - 5'	95	95
890-6921-10	SW - 15 - 0 - 5'	105	88
890-6921-11	B - 7A - 6'	108	89
890-6921-12	SW - 16 - 0 - 4'	107	87
890-6921-13	SW - 17 - 0 - 4'	106	89
890-6921-14	B - 45 - 4'	108	88
890-6921-15	B - 46 - 4'	111	91
890-6921-15 MS	B - 46 - 4'	108	92
890-6921-15 MSD	B - 46 - 4'	108	93
890-6921-16	B - 47 - 4'	113	91
890-6921-17	B - 48 - 4'	113	90
890-6921-18	B - 49 - 4'	113	90
890-6921-19	B - 50 - 4'	112	90
890-6921-20	B - 51 - 4'	114	91
890-6921-21	B - 52 - 4'	113	91
890-6926-1	B-53-4	110	89
890-6926-1 MS	B-53-4	106	93
890-6926-1 MSD	B-53-4	107	92
890-6926-3	B-55-4	109	80
890-6926-4	B-56-4	111	89
890-6926-5	B-57-4	110	89
890-6926-6	B-58-4	111	88
890-6926-7	B-59-4	112	89
890-6926-10	SW-20-0-4	111	88
890-6929-1	B-54-4	111	90
890-6929-2	SW-18-4	109	88
890-6929-3	SW-19-4	110	89
LCS 880-84303/1-A	Lab Control Sample	99	91

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 890-6879-1
Project/Site: asio otus fed 003h

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-84312/1-A	Lab Control Sample	70	106
LCS 880-84412/1-A	Lab Control Sample	80	95
LCS 880-84633/1-A	Lab Control Sample	105	93
LCS 880-84852/1-A	Lab Control Sample	105	93
LCS 880-84876/1-A	Lab Control Sample	107	86
LCS 880-85024/1-A	Lab Control Sample	100	91
LCS 880-85029/1-A	Lab Control Sample	105	93
LCS 880-85417/1-A	Lab Control Sample	132 S1+	108
LCS 880-85419/1-A	Lab Control Sample	95	94
LCS 880-85421/1-A	Lab Control Sample	108	92
LCS 880-85513/1-A	Lab Control Sample	107	92
LCSD 880-84303/2-A	Lab Control Sample Dup	99	92
LCSD 880-84312/2-A	Lab Control Sample Dup	121	110
LCSD 880-84412/2-A	Lab Control Sample Dup	118	111
LCSD 880-84633/2-A	Lab Control Sample Dup	103	93
LCSD 880-84852/2-A	Lab Control Sample Dup	105	94
LCSD 880-84876/2-A	Lab Control Sample Dup	110	100
LCSD 880-85024/2-A	Lab Control Sample Dup	97	92
LCSD 880-85029/2-A	Lab Control Sample Dup	106	93
LCSD 880-85417/2-A	Lab Control Sample Dup	122	99
LCSD 880-85419/2-A	Lab Control Sample Dup	95	94
LCSD 880-85421/2-A	Lab Control Sample Dup	107	93
LCSD 880-85513/2-A	Lab Control Sample Dup	107	92
MB 880-84303/5-A	Method Blank	100	84
MB 880-84312/5-A	Method Blank	183 S1+	121
MB 880-84412/5-A	Method Blank	78	87
MB 880-84633/5-A	Method Blank	105	85
MB 880-84805/8	Method Blank	63 S1-	91
MB 880-84809/5-A	Method Blank	106	86
MB 880-84852/5-A	Method Blank	108	86
MB 880-84876/5-A	Method Blank	66 S1-	0.07 S1-
MB 880-85024/5-A	Method Blank	108	87
MB 880-85029/5-A	Method Blank	109	87
MB 880-85417/5-A	Method Blank	216 S1+	129
MB 880-85419/5-A	Method Blank	105	87
MB 880-85421/5-A	Method Blank	110	86
MB 880-85513/5-A	Method Blank	105	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-45311-1	SW-1-0-2.5'	86	93
880-45311-2	SW-2-0-2.5'	5 S1-	5 S1-
880-45311-3	B-1-2.5'	74	79

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 890-6879-1
Project/Site: asio otus fed 003h

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-45311-4	B-2-2.5'	82	86								
880-45311-5	B-3-2.5'	92	94								
880-45311-6	B-4-2.5'	73	77								
880-45311-7	B-5-2.5'	120	121								
880-45355-1	SW-3-0-6'	138 S1+	151 S1+								
880-45355-2	SW-4-0-6'	158 S1+	172 S1+								
880-45355-3	SW-5-0-6'	159 S1+	172 S1+								
880-45355-4	B-6-6'	148 S1+	163 S1+								
880-45355-5	B-7-6'	144 S1+	157 S1+								
880-45355-6	B-8-6'	123	135 S1+								
880-45355-7	B-9-3'	130	144 S1+								
880-45355-8	B-10-3'	121	134 S1+								
880-45542-1	B-11-4'	81	79								
880-45542-1 MS	B-11-4'	83	76								
880-45542-1 MSD	B-11-4'	83	78								
880-45542-2	B-12-4'	77	77								
880-45542-3	B-14-4'	77	79								
880-45542-4	B-15-4'	76	76								
880-45542-5	B-16-4'	71	70								
880-45542-6	B-17-4'	95	96								
880-45542-7	B-18-4'	77	78								
880-45542-8	B-19-4'	82	83								
880-45542-9	B-20-4'	88	87								
880-45542-10	B-21-4'	101	100								
880-45542-11	Soil Pile	87	90								
880-45542-12	SW-6-0-4'	92	92								
880-45542-13	SW-7-0-4'	74	71								
890-6856-1	B - 13 - 3'	158 S1+	170 S1+								
890-6879-1	B-22	61 S1-	64 S1-								
890-6879-2	B-23	71	74								
890-6879-3	B-24	61 S1-	64 S1-								
890-6879-4	B-25	72	74								
890-6879-5	B-26	72	77								
890-6879-6	B-27	65 S1-	66 S1-								
890-6879-7	B-28	74	76								
890-6879-8	SW-8	77	81								
890-6879-9	SW-9	68 S1-	68 S1-								
890-6879-10	SW-10	82	85								
890-6879-11	SW-1A	74	80								
890-6879-12	B-29	71	72								
890-6879-13	B-30	67 S1-	67 S1-								
890-6879-14	B-31	61 S1-	60 S1-								
890-6879-15	B-32	73	75								
890-6879-16	B-33	74	75								
890-6879-17	B-34	62 S1-	63 S1-								
890-6879-18	B-35	64 S1-	63 S1-								
890-6879-19	B-36	58 S1-	59 S1-								
890-6879-20	SW-11	80	81								
890-6879-21	SW-12	82	90								
890-6879-21 MS	SW-12	80	83								

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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)
890-6879-21 MSD	SW-12	83	85
890-6879-22	SW-13	95	113
890-6921-1	B - 37 - 5'	73	72
890-6921-1 MS	B - 37 - 5'	70	75
890-6921-1 MSD	B - 37 - 5'	70	75
890-6921-2	B - 38 - 5'	84	83
890-6921-3	B - 39 - 5'	68 S1-	69 S1-
890-6921-4	B - 40 - 5'	78	78
890-6921-5	B - 41 - 5'	83	82
890-6921-6	B - 42 - 5'	77	77
890-6921-7	B - 43 - 5'	81	80
890-6921-8	B - 44 - 5'	83	83
890-6921-9	SW - 14 - 0 - 5'	82	82
890-6921-10	SW - 15 - 0 - 5'	88	87
890-6921-11	B - 7A - 6'	77	70
890-6921-12	SW - 16 - 0 - 4'	84	78
890-6921-13	SW - 17 - 0 - 4'	74	66 S1-
890-6921-14	B - 45 - 4'	91	81
890-6921-15	B - 46 - 4'	73	65 S1-
890-6921-16	B - 47 - 4'	75	66 S1-
890-6921-17	B - 48 - 4'	77	69 S1-
890-6921-18	B - 49 - 4'	72	63 S1-
890-6921-19	B - 50 - 4'	68 S1-	59 S1-
890-6921-20	B - 51 - 4'	71	63 S1-
890-6921-21	B - 52 - 4'	67 S1-	61 S1-
890-6926-1	B-53-4	65 S1-	58 S1-
890-6926-3	B-55-4	67 S1-	58 S1-
890-6926-4	B-56-4	76	75
890-6926-4 MS	B-56-4	69 S1-	74
890-6926-4 MSD	B-56-4	70	74
890-6926-5	B-57-4	74	73
890-6926-6	B-58-4	81	80
890-6926-7	B-59-4	77	76
890-6926-10	SW-20-0-4	70	70
890-6929-1	B-54-4	75	63 S1-
890-6929-2	SW-18-4	67 S1-	59 S1-
890-6929-3	SW-19-4	74	63 S1-
LCS 880-84377/2-A	Lab Control Sample	95	96
LCS 880-84443/2-A	Lab Control Sample	106	105
LCS 880-84594/2-A	Lab Control Sample	144 S1+	157 S1+
LCS 880-84901/2-A	Lab Control Sample	115	116
LCS 880-85020/2-A	Lab Control Sample	78	77
LCS 880-85021/2-A	Lab Control Sample	121	129
LCS 880-85376/2-A	Lab Control Sample	94	110
LCS 880-85546/2-A	Lab Control Sample	93	84
LCS 880-85557/2-A	Lab Control Sample	88	75
LCS 880-85572/2-A	Lab Control Sample	117	113
LCSD 880-84377/3-A	Lab Control Sample Dup	97	100
LCSD 880-84443/3-A	Lab Control Sample Dup	125	128
LCSD 880-84594/3-A	Lab Control Sample Dup	117	126

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 890-6879-1
Project/Site: asio otus fed 003h

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)								
LCSD 880-84901/3-A	Lab Control Sample Dup	116	110								
LCSD 880-85020/3-A	Lab Control Sample Dup	98	99								
LCSD 880-85021/3-A	Lab Control Sample Dup	116	126								
LCSD 880-85376/3-A	Lab Control Sample Dup	95	113								
LCSD 880-85546/3-A	Lab Control Sample Dup	94	88								
LCSD 880-85557/3-A	Lab Control Sample Dup	85	73								
LCSD 880-85572/3-A	Lab Control Sample Dup	96	114								
MB 880-84377/1-A	Method Blank	129	141 S1+								
MB 880-84443/1-A	Method Blank	232 S1+	253 S1+								
MB 880-84594/1-A	Method Blank	214 S1+	266 S1+								
MB 880-84901/1-A	Method Blank	76	81								
MB 880-85020/1-A	Method Blank	77	86								
MB 880-85021/1-A	Method Blank	86	103								
MB 880-85376/1-A	Method Blank	100	127								
MB 880-85546/1-A	Method Blank	115	120								
MB 880-85557/1-A	Method Blank	101	118								
MB 880-85572/1-A	Method Blank	117	149 S1+								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-84303/5-A
Matrix: Solid
Analysis Batch: 84306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		06/27/24 08:22	06/27/24 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/27/24 08:22*	*06/27/24 11:33*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/27/24 08:22*	*06/27/24 11:33*	*1*

Lab Sample ID: LCS 880-84303/1-A
Matrix: Solid
Analysis Batch: 84306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08529		mg/Kg		85	70 - 130
Toluene	0.100	0.08347		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08427		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1800		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09044		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-84303/2-A
Matrix: Solid
Analysis Batch: 84306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08970		mg/Kg		90	70 - 130	5	35
Toluene	0.100	0.08729		mg/Kg		87	70 - 130	4	35
Ethylbenzene	0.100	0.08859		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1885		mg/Kg		94	70 - 130	5	35
o-Xylene	0.100	0.09465		mg/Kg		95	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 880-84312/5-A
Matrix: Solid
Analysis Batch: 84308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/27/24 08:37	06/27/24 11:41	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: MB 880-84312/5-A
Matrix: Solid
Analysis Batch: 84308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		06/27/24 08:37	06/27/24 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*183*	*S1+*	*70 - 130*	*06/27/24 08:37*	*06/27/24 11:41*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*06/27/24 08:37*	*06/27/24 11:41*	*1*

Lab Sample ID: LCS 880-84312/1-A
Matrix: Solid
Analysis Batch: 84308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07177		mg/Kg		72	70 - 130
Toluene	0.100	0.06864	*-	mg/Kg		69	70 - 130
Ethylbenzene	0.100	0.08331		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.06904	*-	mg/Kg		35	70 - 130
o-Xylene	0.100	0.06269	*-	mg/Kg		63	70 - 130

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

Lab Sample ID: LCSD 880-84312/2-A
Matrix: Solid
Analysis Batch: 84308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84312

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09926		mg/Kg		99	70 - 130	32	35
Toluene	0.100	0.08495		mg/Kg		85	70 - 130	21	35
Ethylbenzene	0.100	0.08414		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1684	*1	mg/Kg		84	70 - 130	84	35
o-Xylene	0.100	0.1003	*1	mg/Kg		100	70 - 130	46	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 880-84412/5-A
Matrix: Solid
Analysis Batch: 84451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		06/27/24 16:42	06/28/24 11:23	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/27/24 16:42	06/28/24 11:23	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		06/27/24 16:42	06/28/24 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		06/27/24 16:42	06/28/24 11:23	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: MB 880-84412/5-A
Matrix: Solid
Analysis Batch: 84451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		06/27/24 16:42	06/28/24 11:23	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		06/27/24 16:42	06/28/24 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*06/27/24 16:42*	*06/28/24 11:23*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/27/24 16:42*	*06/28/24 11:23*	*1*

Lab Sample ID: LCS 880-84412/1-A
Matrix: Solid
Analysis Batch: 84451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08533		mg/Kg		85	70 - 130
Toluene	0.100	0.08243		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.09413		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1739		mg/Kg		87	70 - 130
o-Xylene	0.100	0.08084		mg/Kg		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-84412/2-A
Matrix: Solid
Analysis Batch: 84451

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1146		mg/Kg		115	70 - 130	29	35
Toluene	0.100	0.1027		mg/Kg		103	70 - 130	22	35
Ethylbenzene	0.100	0.1196		mg/Kg		120	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.2291		mg/Kg		115	70 - 130	27	35
o-Xylene	0.100	0.1121		mg/Kg		112	70 - 130	32	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-45355-1 MS
Matrix: Solid
Analysis Batch: 84451

Client Sample ID: SW-3-0-6'
Prep Type: Total/NA
Prep Batch: 84412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1220		mg/Kg		123	70 - 130
Toluene	<0.00199	U	0.0996	0.1131		mg/Kg		114	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.1284		mg/Kg		129	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.2466		mg/Kg		124	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.1330	F1	mg/Kg		133	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: 880-45355-1 MS
Matrix: Solid
Analysis Batch: 84451

Client Sample ID: SW-3-0-6'
Prep Type: Total/NA
Prep Batch: 84412

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-45355-1 MSD
Matrix: Solid
Analysis Batch: 84451

Client Sample ID: SW-3-0-6'
Prep Type: Total/NA
Prep Batch: 84412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1233		mg/Kg		122	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1121		mg/Kg		111	70 - 130	1	35
Ethylbenzene	<0.00199	U F1	0.101	0.1476	F1	mg/Kg		146	70 - 130	14	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.2809	F1	mg/Kg		139	70 - 130	13	35
o-Xylene	<0.00199	U F1	0.101	0.1302		mg/Kg		129	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: MB 880-84633/5-A
Matrix: Solid
Analysis Batch: 84659

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		06/29/24 13:54	07/01/24 11:49	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		06/29/24 13:54	07/01/24 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/29/24 13:54	07/01/24 11:49	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/29/24 13:54	07/01/24 11:49	1

Lab Sample ID: LCS 880-84633/1-A
Matrix: Solid
Analysis Batch: 84659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1004		mg/Kg		100	70 - 130
Toluene	0.100	0.09552		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09292		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCS 880-84633/1-A
Matrix: Solid
Analysis Batch: 84659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84633

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

Lab Sample ID: LCSD 880-84633/2-A
Matrix: Solid
Analysis Batch: 84659

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84633

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1005		mg/Kg		101	70 - 130	0	35
Toluene			0.100	0.09527		mg/Kg		95	70 - 130	0	35
Ethylbenzene			0.100	0.09254		mg/Kg		93	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2016		mg/Kg		101	70 - 130	0	35
o-Xylene			0.100	0.1008		mg/Kg		101	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-6856-1 MS
Matrix: Solid
Analysis Batch: 84659

Client Sample ID: B - 13 - 3'
Prep Type: Total/NA
Prep Batch: 84633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.0996	0.09870		mg/Kg		99	70 - 130		
Toluene	<0.00202	U	0.0996	0.09342		mg/Kg		94	70 - 130		
Ethylbenzene	<0.00202	U	0.0996	0.09014		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1959		mg/Kg		98	70 - 130		
o-Xylene	<0.00202	U	0.0996	0.09812		mg/Kg		99	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-6856-1 MSD
Matrix: Solid
Analysis Batch: 84659

Client Sample ID: B - 13 - 3'
Prep Type: Total/NA
Prep Batch: 84633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.101	0.09316		mg/Kg		92	70 - 130	6	35
Toluene	<0.00202	U	0.101	0.08770		mg/Kg		87	70 - 130	6	35
Ethylbenzene	<0.00202	U	0.101	0.08511		mg/Kg		84	70 - 130	6	35
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1851		mg/Kg		92	70 - 130	6	35
o-Xylene	<0.00202	U	0.101	0.09220		mg/Kg		91	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: MB 880-84805/8
Matrix: Solid
Analysis Batch: 84805

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg			07/02/24 12:07	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg			07/02/24 12:07	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg			07/02/24 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg			07/02/24 12:07	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg			07/02/24 12:07	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg			07/02/24 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*		*07/02/24 12:07*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*07/02/24 12:07*	*1*

Lab Sample ID: MB 880-84809/5-A
Matrix: Solid
Analysis Batch: 84804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/02/24 09:08	07/02/24 12:27	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/02/24 09:08	07/02/24 12:27	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/02/24 09:08	07/02/24 12:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/02/24 09:08	07/02/24 12:27	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/02/24 09:08	07/02/24 12:27	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/02/24 09:08	07/02/24 12:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/02/24 09:08*	*07/02/24 12:27*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/02/24 09:08*	*07/02/24 12:27*	*1*

Lab Sample ID: MB 880-84852/5-A
Matrix: Solid
Analysis Batch: 84804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/02/24 13:04	07/02/24 23:25	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/02/24 13:04	07/02/24 23:25	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/02/24 13:04	07/02/24 23:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/02/24 13:04	07/02/24 23:25	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/02/24 13:04	07/02/24 23:25	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/02/24 13:04	07/02/24 23:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/02/24 13:04*	*07/02/24 23:25*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/02/24 13:04*	*07/02/24 23:25*	*1*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCS 880-84852/1-A
Matrix: Solid
Analysis Batch: 84804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84852

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1015		mg/Kg		102	70 - 130		
Toluene			0.100	0.09368		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.08886		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1976		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.09975		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-84852/2-A
Matrix: Solid
Analysis Batch: 84804

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84852

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1060		mg/Kg		106	70 - 130	4	35
Toluene			0.100	0.09724		mg/Kg		97	70 - 130	4	35
Ethylbenzene			0.100	0.09221		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2049		mg/Kg		102	70 - 130	4	35
o-Xylene			0.100	0.1033		mg/Kg		103	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-84876/5-A
Matrix: Solid
Analysis Batch: 84805

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84876

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/02/24 15:05	07/02/24 20:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/02/24 15:05	07/02/24 20:13	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/02/24 15:05	07/02/24 20:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/02/24 15:05	07/02/24 20:13	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/02/24 15:05	07/02/24 20:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/02/24 15:05	07/02/24 20:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*07/02/24 15:05*	*07/02/24 20:13*	*1*
1,4-Difluorobenzene (Surr)	*0.07*	*S1-*	*70 - 130*	*07/02/24 15:05*	*07/02/24 20:13*	*1*

Lab Sample ID: LCS 880-84876/1-A
Matrix: Solid
Analysis Batch: 84805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84876

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	0.1092		mg/Kg		109	70 - 130		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCS 880-84876/1-A
Matrix: Solid
Analysis Batch: 84805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.1045		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2262		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: LCSD 880-84876/2-A
Matrix: Solid
Analysis Batch: 84805

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84876

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1117		mg/Kg		112	70 - 130	2	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	0	35
Ethylbenzene	0.100	0.1035		mg/Kg		103	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2247		mg/Kg		112	70 - 130	1	35
o-Xylene	0.100	0.1109		mg/Kg		111	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-45542-1 MS
Matrix: Solid
Analysis Batch: 84805

Client Sample ID: B-11-4'
Prep Type: Total/NA
Prep Batch: 84876

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.1114		mg/Kg		112	70 - 130
Toluene	<0.00198	U	0.0996	0.09585		mg/Kg		96	70 - 130
Ethylbenzene	<0.00198	U	0.0996	0.09092		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1971		mg/Kg		99	70 - 130
o-Xylene	<0.00198	U	0.0996	0.09502		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-45542-1 MSD
Matrix: Solid
Analysis Batch: 84805

Client Sample ID: B-11-4'
Prep Type: Total/NA
Prep Batch: 84876

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.101	0.1011		mg/Kg		100	70 - 130	10	35
Toluene	<0.00198	U	0.101	0.09976		mg/Kg		99	70 - 130	4	35
Ethylbenzene	<0.00198	U	0.101	0.09515		mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene	<0.00397	U	0.202	0.2048		mg/Kg		102	70 - 130	4	35
o-Xylene	<0.00198	U	0.101	0.1014		mg/Kg		101	70 - 130	6	35

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: MB 880-85024/5-A
Matrix: Solid
Analysis Batch: 85014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 12:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 12:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 12:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/05/24 08:53	07/05/24 12:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:53	07/05/24 12:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/05/24 08:53	07/05/24 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/05/24 08:53	07/05/24 12:06	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/05/24 08:53	07/05/24 12:06	1

Lab Sample ID: LCS 880-85024/1-A
Matrix: Solid
Analysis Batch: 85014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1039		mg/Kg		104	70 - 130
Toluene	0.100	0.09734		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-85024/2-A
Matrix: Solid
Analysis Batch: 85014

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1017		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.09386		mg/Kg		94	70 - 130	4	35
Ethylbenzene	0.100	0.09624		mg/Kg		96	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1949		mg/Kg		97	70 - 130	4	35
o-Xylene	0.100	0.09827		mg/Kg		98	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: MB 880-85029/5-A
Matrix: Solid
Analysis Batch: 85016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 12:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 12:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 12:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/05/24 08:56	07/05/24 12:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/24 08:56	07/05/24 12:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/05/24 08:56	07/05/24 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/05/24 08:56*	*07/05/24 12:10*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/05/24 08:56*	*07/05/24 12:10*	*1*

Lab Sample ID: LCS 880-85029/1-A
Matrix: Solid
Analysis Batch: 85016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1024		mg/Kg		102	70 - 130
Toluene	0.100	0.09645		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09472		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2091		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-85029/2-A
Matrix: Solid
Analysis Batch: 85016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85029

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1064		mg/Kg		106	70 - 130	4	35
Toluene	0.100	0.09932		mg/Kg		99	70 - 130	3	35
Ethylbenzene	0.100	0.09644		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130	3	35
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-6879-12 MS
Matrix: Solid
Analysis Batch: 85016

Client Sample ID: B-29
Prep Type: Total/NA
Prep Batch: 85029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1019		mg/Kg		102	70 - 130
Toluene	<0.00202	U	0.100	0.09540		mg/Kg		95	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: 890-6879-12 MS
Matrix: Solid
Analysis Batch: 85016

Client Sample ID: B-29
Prep Type: Total/NA
Prep Batch: 85029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.09176		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2061		mg/Kg		103	70 - 130
o-Xylene	<0.00202	U	0.100	0.1030		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-6879-12 MSD
Matrix: Solid
Analysis Batch: 85016

Client Sample ID: B-29
Prep Type: Total/NA
Prep Batch: 85029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.1001		mg/Kg		100	70 - 130	2	35
Toluene	<0.00202	U	0.100	0.09350		mg/Kg		93	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.100	0.09003		mg/Kg		90	70 - 130	2	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2007		mg/Kg		100	70 - 130	3	35
o-Xylene	<0.00202	U	0.100	0.1003		mg/Kg		100	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-85417/5-A
Matrix: Solid
Analysis Batch: 85411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:18	07/11/24 11:08	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:18	07/11/24 11:08	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:18	07/11/24 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:18	07/11/24 11:08	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:18	07/11/24 11:08	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:18	07/11/24 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*216*	*S1+*	*70 - 130*	*07/11/24 08:18*	*07/11/24 11:08*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*07/11/24 08:18*	*07/11/24 11:08*	*1*

Lab Sample ID: LCS 880-85417/1-A
Matrix: Solid
Analysis Batch: 85411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1111		mg/Kg		111	70 - 130
Toluene	0.100	0.09002		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2196		mg/Kg		110	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCS 880-85417/1-A
Matrix: Solid
Analysis Batch: 85411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85417

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1157		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-85417/2-A
Matrix: Solid
Analysis Batch: 85411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85417

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1137		mg/Kg		114	70 - 130	2	35
Toluene			0.100	0.09494		mg/Kg		95	70 - 130	5	35
Ethylbenzene			0.100	0.1083		mg/Kg		108	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2228		mg/Kg		111	70 - 130	1	35
o-Xylene			0.100	0.1134		mg/Kg		113	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-6921-1 MS
Matrix: Solid
Analysis Batch: 85411

Client Sample ID: B - 37 - 5'
Prep Type: Total/NA
Prep Batch: 85417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1117		mg/Kg		112	70 - 130		
Toluene	<0.00200	U	0.100	0.09328		mg/Kg		93	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.1160		mg/Kg		116	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2261		mg/Kg		113	70 - 130		
o-Xylene	<0.00200	U	0.100	0.1130		mg/Kg		113	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-6921-1 MSD
Matrix: Solid
Analysis Batch: 85411

Client Sample ID: B - 37 - 5'
Prep Type: Total/NA
Prep Batch: 85417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1133		mg/Kg		113	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.09305		mg/Kg		93	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.1081		mg/Kg		108	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2191		mg/Kg		110	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.1115		mg/Kg		111	70 - 130	1	35

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: 890-6921-1 MSD
Matrix: Solid
Analysis Batch: 85411

Client Sample ID: B - 37 - 5'
Prep Type: Total/NA
Prep Batch: 85417

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-85419/5-A
Matrix: Solid
Analysis Batch: 85413

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:20	07/11/24 10:33	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:20	07/11/24 10:33	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:20	07/11/24 10:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:20	07/11/24 10:33	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:20	07/11/24 10:33	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:20	07/11/24 10:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	07/11/24 08:20	07/11/24 10:33	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/11/24 08:20	07/11/24 10:33	1

Lab Sample ID: LCS 880-85419/1-A
Matrix: Solid
Analysis Batch: 85413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1020		mg/Kg		102	70 - 130
Toluene	0.100	0.09195		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09427		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1901		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09588		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-85419/2-A
Matrix: Solid
Analysis Batch: 85413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85419

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1028		mg/Kg		103	70 - 130	1	35
Toluene	0.100	0.09278		mg/Kg		93	70 - 130	1	35
Ethylbenzene	0.100	0.09565		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1929		mg/Kg		96	70 - 130	1	35
o-Xylene	0.100	0.09713		mg/Kg		97	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCSD 880-85419/2-A
Matrix: Solid
Analysis Batch: 85413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85419

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

Lab Sample ID: 890-6921-9 MS
Matrix: Solid
Analysis Batch: 85413

Client Sample ID: SW - 14 - 0 - 5'
Prep Type: Total/NA
Prep Batch: 85419

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09589		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.100	0.08497		mg/Kg		85	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08486		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1697		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.100	0.08555		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-6921-9 MSD
Matrix: Solid
Analysis Batch: 85413

Client Sample ID: SW - 14 - 0 - 5'
Prep Type: Total/NA
Prep Batch: 85419

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09618		mg/Kg		96	70 - 130	0	35
Toluene	<0.00200	U	0.100	0.08517		mg/Kg		85	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.08572		mg/Kg		86	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1714		mg/Kg		86	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.08657		mg/Kg		87	70 - 130	1	35

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

Lab Sample ID: MB 880-85421/5-A
Matrix: Solid
Analysis Batch: 85412

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/11/24 08:22	07/11/24 10:44	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/11/24 08:22	07/11/24 10:44	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/11/24 08:22	07/11/24 10:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:22	07/11/24 10:44	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/11/24 08:22	07/11/24 10:44	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/11/24 08:22	07/11/24 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/11/24 08:22	07/11/24 10:44	1
1,4-Difluorobenzene (Surr)	86		70 - 130	07/11/24 08:22	07/11/24 10:44	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCS 880-85421/1-A
Matrix: Solid
Analysis Batch: 85412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85421

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1004		mg/Kg		100	70 - 130		
Toluene			0.100	0.09480		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09201		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.2046		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.1019		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-85421/2-A
Matrix: Solid
Analysis Batch: 85412

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85421

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1042		mg/Kg		104	70 - 130	4	35
Toluene			0.100	0.09834		mg/Kg		98	70 - 130	4	35
Ethylbenzene			0.100	0.09532		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2114		mg/Kg		106	70 - 130	3	35
o-Xylene			0.100	0.1054		mg/Kg		105	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-6921-15 MS
Matrix: Solid
Analysis Batch: 85412

Client Sample ID: B - 46 - 4'
Prep Type: Total/NA
Prep Batch: 85421

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09793		mg/Kg		98	70 - 130		
Toluene	<0.00200	U	0.100	0.09240		mg/Kg		92	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08914		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1975		mg/Kg		99	70 - 130		
o-Xylene	<0.00200	U	0.100	0.09879		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-6921-15 MSD
Matrix: Solid
Analysis Batch: 85412

Client Sample ID: B - 46 - 4'
Prep Type: Total/NA
Prep Batch: 85421

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1010		mg/Kg		101	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.09494		mg/Kg		95	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09175		mg/Kg		92	70 - 130	3	35

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: 890-6921-15 MSD
Matrix: Solid
Analysis Batch: 85412

Client Sample ID: B - 46 - 4'
Prep Type: Total/NA
Prep Batch: 85421

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2025		mg/Kg		101	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.1013		mg/Kg		101	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 880-85513/5-A
Matrix: Solid
Analysis Batch: 85517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		07/12/24 08:09	07/12/24 11:32	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/12/24 08:09	07/12/24 11:32	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		07/12/24 08:09	07/12/24 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		07/12/24 08:09	07/12/24 11:32	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		07/12/24 08:09	07/12/24 11:32	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		07/12/24 08:09	07/12/24 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/12/24 08:09*	*07/12/24 11:32*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*07/12/24 08:09*	*07/12/24 11:32*	*1*

Lab Sample ID: LCS 880-85513/1-A
Matrix: Solid
Analysis Batch: 85517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09557		mg/Kg		96	70 - 130
Toluene	0.100	0.09189		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.08903		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1905		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09799		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-85513/2-A
Matrix: Solid
Analysis Batch: 85517

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85513

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1005		mg/Kg		101	70 - 130	5	35
Toluene	0.100	0.09505		mg/Kg		95	70 - 130	3	35
Ethylbenzene	0.100	0.09417		mg/Kg		94	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130	8	35
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	4	35

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-6926-1 MS — **Client Sample ID: B-53-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 85517 — **Prep Batch: 85513**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.09514		mg/Kg		94	70 - 130
Toluene	<0.00199	U	0.101	0.08924		mg/Kg		89	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.08747		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1901		mg/Kg		94	70 - 130
o-Xylene	<0.00199	U	0.101	0.09448		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-6926-1 MSD — **Client Sample ID: B-53-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 85517 — **Prep Batch: 85513**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0992	0.09541		mg/Kg		96	70 - 130	0	35
Toluene	<0.00199	U	0.0992	0.08994		mg/Kg		91	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.0992	0.08899		mg/Kg		90	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1931		mg/Kg		97	70 - 130	2	35
o-Xylene	<0.00199	U	0.0992	0.09617		mg/Kg		97	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-84377/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84437 — **Prep Batch: 84377**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	11.78	J	50.0	11.0	mg/Kg		06/27/24 14:33	06/28/24 19:33	1
Diesel Range Organics (Over C10-C28)	16.17	J	50.0	15.0	mg/Kg		06/27/24 14:33	06/28/24 19:33	1
Oil Range Organics (Over C28-C36)	20.37	J	50.0	12.5	mg/Kg		06/27/24 14:33	06/28/24 19:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	06/27/24 14:33	06/28/24 19:33	1
o-Terphenyl	141	S1+	70 - 130	06/27/24 14:33	06/28/24 19:33	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCS 880-84377/2-A
Matrix: Solid
Analysis Batch: 84437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84377

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	967.7		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	959.2		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-84377/3-A
Matrix: Solid
Analysis Batch: 84437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84377

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	877.0		mg/Kg		88	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	847.0		mg/Kg		85	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: MB 880-84443/1-A
Matrix: Solid
Analysis Batch: 84442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.02	J	50.0	11.0	mg/Kg		06/28/24 08:10	06/28/24 19:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/28/24 08:10	06/28/24 19:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	12.5	mg/Kg		06/28/24 08:10	06/28/24 19:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*232*	*S1+*	*70 - 130*	*06/28/24 08:10*	*06/28/24 19:16*	*1*
o-Terphenyl	*253*	*S1+*	*70 - 130*	*06/28/24 08:10*	*06/28/24 19:16*	*1*

Lab Sample ID: LCS 880-84443/2-A
Matrix: Solid
Analysis Batch: 84442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84443

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	853.9		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	902.8		mg/Kg		90	70 - 130		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCS 880-84443/2-A
Matrix: Solid
Analysis Batch: 84442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84443

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-84443/3-A
Matrix: Solid
Analysis Batch: 84442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84443

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1056	*1	mg/Kg		106	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	1013		mg/Kg		101	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: MB 880-84594/1-A
Matrix: Solid
Analysis Batch: 84647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	12.80	J	50.0	11.0	mg/Kg		06/28/24 16:24	07/01/24 08:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/28/24 16:24	07/01/24 08:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	12.5	mg/Kg		06/28/24 16:24	07/01/24 08:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	214	S1+	70 - 130	06/28/24 16:24	07/01/24 08:34	1
o-Terphenyl	266	S1+	70 - 130	06/28/24 16:24	07/01/24 08:34	1

Lab Sample ID: LCS 880-84594/2-A
Matrix: Solid
Analysis Batch: 84647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1035		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1224		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	144	S1+	70 - 130
o-Terphenyl	157	S1+	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCSD 880-84594/3-A
Matrix: Solid
Analysis Batch: 84647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84594

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	900.7		mg/Kg		90	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	1040		mg/Kg		104	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*126*		*70 - 130*

Lab Sample ID: MB 880-84901/1-A
Matrix: Solid
Analysis Batch: 84928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	11.0	mg/Kg		07/02/24 19:19	07/03/24 07:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		07/02/24 19:19	07/03/24 07:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	12.5	mg/Kg		07/02/24 19:19	07/03/24 07:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/02/24 19:19*	*07/03/24 07:33*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/02/24 19:19*	*07/03/24 07:33*	*1*

Lab Sample ID: LCS 880-84901/2-A
Matrix: Solid
Analysis Batch: 84928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84901

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	879.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)			1000	883.9		mg/Kg		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*116*		*70 - 130*

Lab Sample ID: LCSD 880-84901/3-A
Matrix: Solid
Analysis Batch: 84928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84901

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	973.2		mg/Kg		97	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	914.0		mg/Kg		91	70 - 130	3	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCSD 880-84901/3-A
Matrix: Solid
Analysis Batch: 84928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84901

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 880-45542-1 MS
Matrix: Solid
Analysis Batch: 84928

Client Sample ID: B-11-4'
Prep Type: Total/NA
Prep Batch: 84901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	11.1	J	996	927.6		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	487.4	F1	mg/Kg		49	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Lab Sample ID: 880-45542-1 MSD
Matrix: Solid
Analysis Batch: 84928

Client Sample ID: B-11-4'
Prep Type: Total/NA
Prep Batch: 84901

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	11.1	J	996	908.8		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	494.5	F1	mg/Kg		50	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: MB 880-85020/1-A
Matrix: Solid
Analysis Batch: 85003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85020

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		07/05/24 08:39	07/05/24 20:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/05/24 20:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/05/24 08:39	07/05/24 20:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/05/24 08:39*	*07/05/24 20:34*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/05/24 08:39*	*07/05/24 20:34*	*1*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCS 880-85020/2-A
Matrix: Solid
Analysis Batch: 85003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85020

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	935.9		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	842.7		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Lab Sample ID: LCSD 880-85020/3-A
Matrix: Solid
Analysis Batch: 85003

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85020

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1083		mg/Kg		108	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	999.4		mg/Kg		100	70 - 130	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: MB 880-85021/1-A
Matrix: Solid
Analysis Batch: 85095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85021

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		07/05/24 08:44	07/06/24 08:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/05/24 08:44	07/06/24 08:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/05/24 08:44	07/06/24 08:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*07/05/24 08:44*	*07/06/24 08:08*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/05/24 08:44*	*07/06/24 08:08*	*1*

Lab Sample ID: LCS 880-85021/2-A
Matrix: Solid
Analysis Batch: 85095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85021

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1150		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	995.3		mg/Kg		100	70 - 130		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCS 880-85021/2-A
Matrix: Solid
Analysis Batch: 85095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85021

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: LCSD 880-85021/3-A
Matrix: Solid
Analysis Batch: 85095

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85021

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1161		mg/Kg		116	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	996.7		mg/Kg		100	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 890-6879-21 MS
Matrix: Solid
Analysis Batch: 85095

Client Sample ID: SW-12
Prep Type: Total/NA
Prep Batch: 85021

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	959.6		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	534.0	F1	mg/Kg		53	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-6879-21 MSD
Matrix: Solid
Analysis Batch: 85095

Client Sample ID: SW-12
Prep Type: Total/NA
Prep Batch: 85021

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1031		mg/Kg		101	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	557.7	F1	mg/Kg		56	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: MB 880-85376/1-A
Matrix: Solid
Analysis Batch: 85442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		07/10/24 14:37	07/11/24 09:42	1
Diesel Range Organics (Over C10-C28)	16.35	J	50.0	15.1	mg/Kg		07/10/24 14:37	07/11/24 09:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/10/24 14:37	07/11/24 09:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/10/24 14:37*	*07/11/24 09:42*	*1*
o-Terphenyl	*127*		*70 - 130*	*07/10/24 14:37*	*07/11/24 09:42*	*1*

Lab Sample ID: LCS 880-85376/2-A
Matrix: Solid
Analysis Batch: 85442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	821.2		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	989.3		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: LCSD 880-85376/3-A
Matrix: Solid
Analysis Batch: 85442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1032	*1	mg/Kg		103	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	1204		mg/Kg		120	70 - 130	20	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 890-6921-1 MS
Matrix: Solid
Analysis Batch: 85442

Client Sample ID: B - 37 - 5'
Prep Type: Total/NA
Prep Batch: 85376

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 F1 *1	991	552.1	F1	mg/Kg		56	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	991	620.9	F1	mg/Kg		63	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: 890-6921-1 MS
Matrix: Solid
Analysis Batch: 85442

Client Sample ID: B - 37 - 5'
Prep Type: Total/NA
Prep Batch: 85376

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 890-6921-1 MSD
Matrix: Solid
Analysis Batch: 85442

Client Sample ID: B - 37 - 5'
Prep Type: Total/NA
Prep Batch: 85376

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 F1 *1	991	555.9	F1	mg/Kg		56	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	991	616.3	F1	mg/Kg		62	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: MB 880-85546/1-A
Matrix: Solid
Analysis Batch: 85578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		07/12/24 10:17	07/12/24 12:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 10:17	07/12/24 12:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 10:17	07/12/24 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	07/12/24 10:17	07/12/24 12:31	1
o-Terphenyl	120		70 - 130	07/12/24 10:17	07/12/24 12:31	1

Lab Sample ID: LCS 880-85546/2-A
Matrix: Solid
Analysis Batch: 85578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	916.6		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	815.9		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	84		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCSD 880-85546/3-A
Matrix: Solid
Analysis Batch: 85578

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1128	*1	mg/Kg		113	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	972.7		mg/Kg		97	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: MB 880-85557/1-A
Matrix: Solid
Analysis Batch: 85608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.06	J	50.0	14.5	mg/Kg		07/12/24 10:46	07/12/24 14:19	1
Diesel Range Organics (Over C10-C28)	16.57	J	50.0	15.1	mg/Kg		07/12/24 10:46	07/12/24 14:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 10:46	07/12/24 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/12/24 10:46*	*07/12/24 14:19*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/12/24 10:46*	*07/12/24 14:19*	*1*

Lab Sample ID: LCS 880-85557/2-A
Matrix: Solid
Analysis Batch: 85608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85557

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	919.8		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)			1000	885.1		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: LCSD 880-85557/3-A
Matrix: Solid
Analysis Batch: 85608

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85557

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	909.2		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	887.9		mg/Kg		89	70 - 130	0	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: LCSD 880-85557/3-A
Matrix: Solid
Analysis Batch: 85608

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85557

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: MB 880-85572/1-A
Matrix: Solid
Analysis Batch: 85584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		07/12/24 11:55	07/12/24 12:31	1
Diesel Range Organics (Over C10-C28)	15.47	J	50.0	15.1	mg/Kg		07/12/24 11:55	07/12/24 12:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		07/12/24 11:55	07/12/24 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*07/12/24 11:55*	*07/12/24 12:31*	*1*
o-Terphenyl	*149*	*S1+*	*70 - 130*	*07/12/24 11:55*	*07/12/24 12:31*	*1*

Lab Sample ID: LCS 880-85572/2-A
Matrix: Solid
Analysis Batch: 85584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	835.8		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	981.9		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: LCSD 880-85572/3-A
Matrix: Solid
Analysis Batch: 85584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1028	*1	mg/Kg		103	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	1211	*1	mg/Kg		121	70 - 130	21	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

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

Lab Sample ID: 890-6926-4 MS
Matrix: Solid
Analysis Batch: 85584

Client Sample ID: B-56-4
Prep Type: Total/NA
Prep Batch: 85572

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 F1 *1	1000	620.9	F1	mg/Kg		62	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1 *1	1000	728.8		mg/Kg		73	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*69*	*S1-*	*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: 890-6926-4 MSD
Matrix: Solid
Analysis Batch: 85584

Client Sample ID: B-56-4
Prep Type: Total/NA
Prep Batch: 85572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 *1	1000	616.7	F1	mg/Kg		62	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1 *1	1000	692.3	F1	mg/Kg		69	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*70*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84355/1-A
Matrix: Solid
Analysis Batch: 84375

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			06/28/24 06:42	1

Lab Sample ID: LCS 880-84355/2-A
Matrix: Solid
Analysis Batch: 84375

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.6		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-84355/3-A
Matrix: Solid
Analysis Batch: 84375

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	255.9		mg/Kg		102	90 - 110	0	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-45311-1 MS
Matrix: Solid
Analysis Batch: 84375

Client Sample ID: SW-1-0-2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	783	F1	2510	2399	F1	mg/Kg		65	90 - 110

Lab Sample ID: 880-45311-1 MSD
Matrix: Solid
Analysis Batch: 84375

Client Sample ID: SW-1-0-2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	783	F1	2510	2387	F1	mg/Kg		64	90 - 110	0	20

Lab Sample ID: MB 880-84392/1-A
Matrix: Solid
Analysis Batch: 84413

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			06/27/24 23:59	1

Lab Sample ID: LCS 880-84392/2-A
Matrix: Solid
Analysis Batch: 84413

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-84392/3-A
Matrix: Solid
Analysis Batch: 84413

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-45355-1 MS
Matrix: Solid
Analysis Batch: 84413

Client Sample ID: SW-3-0-6'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	356		2500	2989		mg/Kg		106	90 - 110

Lab Sample ID: 880-45355-1 MSD
Matrix: Solid
Analysis Batch: 84413

Client Sample ID: SW-3-0-6'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	356		2500	2997		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-84389/1-A
Matrix: Solid
Analysis Batch: 84505

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			06/28/24 21:28	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-84389/2-A
Matrix: Solid
Analysis Batch: 84505

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	231.1		mg/Kg		92	90 - 110		

Lab Sample ID: LCSD 880-84389/3-A
Matrix: Solid
Analysis Batch: 84505

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	230.6		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 880-45311-2 MS
Matrix: Solid
Analysis Batch: 84505

Client Sample ID: SW-2-0-2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	422		250	646.6		mg/Kg		90	90 - 110		

Lab Sample ID: 880-45311-2 MSD
Matrix: Solid
Analysis Batch: 84505

Client Sample ID: SW-2-0-2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	422		250	647.2		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-84580/1-A
Matrix: Solid
Analysis Batch: 84649

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			07/01/24 08:44	1

Lab Sample ID: LCS 880-84580/2-A
Matrix: Solid
Analysis Batch: 84649

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	273.9		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-84580/3-A
Matrix: Solid
Analysis Batch: 84649

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	272.5		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-84854/1-A
Matrix: Solid
Analysis Batch: 84896

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			07/03/24 11:01	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-84854/2-A
Matrix: Solid
Analysis Batch: 84896

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.3		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-84854/3-A
Matrix: Solid
Analysis Batch: 84896

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: 880-45542-12 MS
Matrix: Solid
Analysis Batch: 84896

Client Sample ID: SW-6-0-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	279		249	505.5		mg/Kg		91	90 - 110		

Lab Sample ID: 880-45542-12 MSD
Matrix: Solid
Analysis Batch: 84896

Client Sample ID: SW-6-0-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	279		249	506.6		mg/Kg		91	90 - 110	0	20

Lab Sample ID: MB 880-84943/1-A
Matrix: Solid
Analysis Batch: 84952

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/03/24 11:46	1

Lab Sample ID: LCS 880-84943/2-A
Matrix: Solid
Analysis Batch: 84952

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.5		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-84943/3-A
Matrix: Solid
Analysis Batch: 84952

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	247.5		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-6879-1 MS
Matrix: Solid
Analysis Batch: 84952

Client Sample ID: B-22
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	273	F1	248	448.2	F1	mg/Kg		71	90 - 110		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-6879-1 MSD — **Client Sample ID: B-22**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 84952

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	273	F1	248	448.5	F1	mg/Kg		71	90 - 110	0	20

Lab Sample ID: 890-6879-11 MS — **Client Sample ID: SW-1A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 84952

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	146		249	378.3		mg/Kg		93	90 - 110

Lab Sample ID: 890-6879-11 MSD — **Client Sample ID: SW-1A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 84952

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	146		249	376.2		mg/Kg		93	90 - 110	1	20

Lab Sample ID: MB 880-84966/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 84968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/03/24 15:15	1

Lab Sample ID: LCS 880-84966/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 84968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.5		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-84966/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 84968

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-45542-2 MS — **Client Sample ID: B-12-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 84968

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	244	F1	252	567.3	F1	mg/Kg		128	90 - 110

Lab Sample ID: 880-45542-2 MSD — **Client Sample ID: B-12-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 84968

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	244	F1	252	568.3	F1	mg/Kg		129	90 - 110	0	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84989/1-A
Matrix: Solid
Analysis Batch: 85023

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			07/04/24 09:26	1

Lab Sample ID: LCS 880-84989/2-A
Matrix: Solid
Analysis Batch: 85023

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-84989/3-A
Matrix: Solid
Analysis Batch: 85023

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	245.5		mg/Kg		98	90 - 110	2	20

Lab Sample ID: MB 880-84874/1-A
Matrix: Solid
Analysis Batch: 85086

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			07/05/24 21:21	1

Lab Sample ID: LCS 880-84874/2-A
Matrix: Solid
Analysis Batch: 85086

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.9		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-84874/3-A
Matrix: Solid
Analysis Batch: 85086

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	258.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-85422/1-A
Matrix: Solid
Analysis Batch: 85430

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			07/11/24 10:46	1

Lab Sample ID: LCS 880-85422/2-A
Matrix: Solid
Analysis Batch: 85430

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.0		mg/Kg		105	90 - 110

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-85422/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 85430

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	262.9		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-6921-11 MS — **Client Sample ID: B - 7A - 6'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 85430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	10.7	F1	253	300.8	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 890-6921-11 MSD — **Client Sample ID: B - 7A - 6'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 85430

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.7	F1	253	300.7	F1	mg/Kg		115	90 - 110	0	20

Lab Sample ID: MB 880-85436/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 85437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			07/11/24 13:30	1

Lab Sample ID: LCS 880-85436/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 85437

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-85436/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 85437

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.0		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-6921-21 MS — **Client Sample ID: B - 52 - 4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 85437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	194	F1	251	395.7	F1	mg/Kg		80	90 - 110		

Lab Sample ID: 890-6921-21 MSD — **Client Sample ID: B - 52 - 4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 85437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	194	F1	251	396.3	F1	mg/Kg		80	90 - 110	0	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-85512/1-A
Matrix: Solid
Analysis Batch: 85522

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			07/12/24 08:59	1

Lab Sample ID: LCS 880-85512/2-A
Matrix: Solid
Analysis Batch: 85522

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.9		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-85512/3-A
Matrix: Solid
Analysis Batch: 85522

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	258.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-6926-5 MS
Matrix: Solid
Analysis Batch: 85522

Client Sample ID: B-57-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	94.5		253	360.8		mg/Kg		105	90 - 110		

Lab Sample ID: 890-6926-5 MSD
Matrix: Solid
Analysis Batch: 85522

Client Sample ID: B-57-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	94.5		253	360.7		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC VOA

Prep Batch: 84303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-2	SW-2-0-2.5'	Total/NA	Solid	5030B	
880-45311-3	B-1-2.5'	Total/NA	Solid	5030B	
880-45311-4	B-2-2.5'	Total/NA	Solid	5030B	
MB 880-84303/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-84303/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-84303/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 84306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-2	SW-2-0-2.5'	Total/NA	Solid	8021B	84303
880-45311-3	B-1-2.5'	Total/NA	Solid	8021B	84303
880-45311-4	B-2-2.5'	Total/NA	Solid	8021B	84303
MB 880-84303/5-A	Method Blank	Total/NA	Solid	8021B	84303
LCS 880-84303/1-A	Lab Control Sample	Total/NA	Solid	8021B	84303
LCSD 880-84303/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84303

Analysis Batch: 84308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-1	SW-1-0-2.5'	Total/NA	Solid	8021B	84312
880-45311-5	B-3-2.5'	Total/NA	Solid	8021B	84312
880-45311-6	B-4-2.5'	Total/NA	Solid	8021B	84312
880-45311-7	B-5-2.5'	Total/NA	Solid	8021B	84312
MB 880-84312/5-A	Method Blank	Total/NA	Solid	8021B	84312
LCS 880-84312/1-A	Lab Control Sample	Total/NA	Solid	8021B	84312
LCSD 880-84312/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84312

Prep Batch: 84312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-1	SW-1-0-2.5'	Total/NA	Solid	5030B	
880-45311-5	B-3-2.5'	Total/NA	Solid	5030B	
880-45311-6	B-4-2.5'	Total/NA	Solid	5030B	
880-45311-7	B-5-2.5'	Total/NA	Solid	5030B	
MB 880-84312/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-84312/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-84312/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 84386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-1	SW-1-0-2.5'	Total/NA	Solid	Total BTEX	

Prep Batch: 84412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45355-1	SW-3-0-6'	Total/NA	Solid	5030B	
880-45355-2	SW-4-0-6'	Total/NA	Solid	5030B	
880-45355-3	SW-5-0-6'	Total/NA	Solid	5030B	
880-45355-4	B-6-6'	Total/NA	Solid	5030B	
880-45355-5	B-7-6'	Total/NA	Solid	5030B	
880-45355-6	B-8-6'	Total/NA	Solid	5030B	
880-45355-7	B-9-3'	Total/NA	Solid	5030B	
880-45355-8	B-10-3'	Total/NA	Solid	5030B	
MB 880-84412/5-A	Method Blank	Total/NA	Solid	5030B	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC VOA (Continued)

Prep Batch: 84412 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-84412/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-84412/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-45355-1 MS	SW-3-0-6'	Total/NA	Solid	5030B	
880-45355-1 MSD	SW-3-0-6'	Total/NA	Solid	5030B	

Analysis Batch: 84451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45355-1	SW-3-0-6'	Total/NA	Solid	8021B	84412
880-45355-2	SW-4-0-6'	Total/NA	Solid	8021B	84412
880-45355-3	SW-5-0-6'	Total/NA	Solid	8021B	84412
880-45355-4	B-6-6'	Total/NA	Solid	8021B	84412
880-45355-5	B-7-6'	Total/NA	Solid	8021B	84412
880-45355-6	B-8-6'	Total/NA	Solid	8021B	84412
880-45355-7	B-9-3'	Total/NA	Solid	8021B	84412
880-45355-8	B-10-3'	Total/NA	Solid	8021B	84412
MB 880-84412/5-A	Method Blank	Total/NA	Solid	8021B	84412
LCS 880-84412/1-A	Lab Control Sample	Total/NA	Solid	8021B	84412
LCSD 880-84412/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84412
880-45355-1 MS	SW-3-0-6'	Total/NA	Solid	8021B	84412
880-45355-1 MSD	SW-3-0-6'	Total/NA	Solid	8021B	84412

Analysis Batch: 84462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-2	SW-2-0-2.5'	Total/NA	Solid	Total BTEX	
880-45311-3	B-1-2.5'	Total/NA	Solid	Total BTEX	
880-45311-4	B-2-2.5'	Total/NA	Solid	Total BTEX	
880-45311-5	B-3-2.5'	Total/NA	Solid	Total BTEX	
880-45311-6	B-4-2.5'	Total/NA	Solid	Total BTEX	
880-45311-7	B-5-2.5'	Total/NA	Solid	Total BTEX	

Analysis Batch: 84575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45355-1	SW-3-0-6'	Total/NA	Solid	Total BTEX	
880-45355-2	SW-4-0-6'	Total/NA	Solid	Total BTEX	
880-45355-3	SW-5-0-6'	Total/NA	Solid	Total BTEX	
880-45355-4	B-6-6'	Total/NA	Solid	Total BTEX	
880-45355-5	B-7-6'	Total/NA	Solid	Total BTEX	
880-45355-6	B-8-6'	Total/NA	Solid	Total BTEX	
880-45355-7	B-9-3'	Total/NA	Solid	Total BTEX	
880-45355-8	B-10-3'	Total/NA	Solid	Total BTEX	

Prep Batch: 84633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6856-1	B - 13 - 3'	Total/NA	Solid	5030B	
MB 880-84633/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-84633/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-84633/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-6856-1 MS	B - 13 - 3'	Total/NA	Solid	5030B	
890-6856-1 MSD	B - 13 - 3'	Total/NA	Solid	5030B	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC VOA

Analysis Batch: 84659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6856-1	B - 13 - 3'	Total/NA	Solid	8021B	84633
MB 880-84633/5-A	Method Blank	Total/NA	Solid	8021B	84633
LCS 880-84633/1-A	Lab Control Sample	Total/NA	Solid	8021B	84633
LCSD 880-84633/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84633
890-6856-1 MS	B - 13 - 3'	Total/NA	Solid	8021B	84633
890-6856-1 MSD	B - 13 - 3'	Total/NA	Solid	8021B	84633

Analysis Batch: 84770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6856-1	B - 13 - 3'	Total/NA	Solid	Total BTEX	

Analysis Batch: 84804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-12	SW-6-0-4'	Total/NA	Solid	8021B	84852
880-45542-13	SW-7-0-4'	Total/NA	Solid	8021B	84852
MB 880-84809/5-A	Method Blank	Total/NA	Solid	8021B	84809
MB 880-84852/5-A	Method Blank	Total/NA	Solid	8021B	84852
LCS 880-84852/1-A	Lab Control Sample	Total/NA	Solid	8021B	84852
LCSD 880-84852/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84852

Analysis Batch: 84805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-1	B-11-4'	Total/NA	Solid	8021B	84876
880-45542-2	B-12-4'	Total/NA	Solid	8021B	84876
880-45542-3	B-14-4'	Total/NA	Solid	8021B	84876
880-45542-4	B-15-4'	Total/NA	Solid	8021B	84876
880-45542-5	B-16-4'	Total/NA	Solid	8021B	84876
880-45542-6	B-17-4'	Total/NA	Solid	8021B	84876
880-45542-7	B-18-4'	Total/NA	Solid	8021B	84876
880-45542-8	B-19-4'	Total/NA	Solid	8021B	84876
880-45542-9	B-20-4'	Total/NA	Solid	8021B	84876
880-45542-10	B-21-4'	Total/NA	Solid	8021B	84876
880-45542-11	Soil Pile	Total/NA	Solid	8021B	84876
MB 880-84805/8	Method Blank	Total/NA	Solid	8021B	
MB 880-84876/5-A	Method Blank	Total/NA	Solid	8021B	84876
LCS 880-84876/1-A	Lab Control Sample	Total/NA	Solid	8021B	84876
LCSD 880-84876/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84876
880-45542-1 MS	B-11-4'	Total/NA	Solid	8021B	84876
880-45542-1 MSD	B-11-4'	Total/NA	Solid	8021B	84876

Prep Batch: 84809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84809/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 84852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-12	SW-6-0-4'	Total/NA	Solid	5030B	
880-45542-13	SW-7-0-4'	Total/NA	Solid	5030B	
MB 880-84852/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-84852/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-84852/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC VOA

Prep Batch: 84876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-1	B-11-4'	Total/NA	Solid	5030B	
880-45542-2	B-12-4'	Total/NA	Solid	5030B	
880-45542-3	B-14-4'	Total/NA	Solid	5030B	
880-45542-4	B-15-4'	Total/NA	Solid	5030B	
880-45542-5	B-16-4'	Total/NA	Solid	5030B	
880-45542-6	B-17-4'	Total/NA	Solid	5030B	
880-45542-7	B-18-4'	Total/NA	Solid	5030B	
880-45542-8	B-19-4'	Total/NA	Solid	5030B	
880-45542-9	B-20-4'	Total/NA	Solid	5030B	
880-45542-10	B-21-4'	Total/NA	Solid	5030B	
880-45542-11	Soil Pile	Total/NA	Solid	5030B	
MB 880-84876/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-84876/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-84876/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-45542-1 MS	B-11-4'	Total/NA	Solid	5030B	
880-45542-1 MSD	B-11-4'	Total/NA	Solid	5030B	

Analysis Batch: 84950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-1	B-11-4'	Total/NA	Solid	Total BTEX	
880-45542-2	B-12-4'	Total/NA	Solid	Total BTEX	
880-45542-3	B-14-4'	Total/NA	Solid	Total BTEX	
880-45542-4	B-15-4'	Total/NA	Solid	Total BTEX	
880-45542-5	B-16-4'	Total/NA	Solid	Total BTEX	
880-45542-6	B-17-4'	Total/NA	Solid	Total BTEX	
880-45542-7	B-18-4'	Total/NA	Solid	Total BTEX	
880-45542-8	B-19-4'	Total/NA	Solid	Total BTEX	
880-45542-9	B-20-4'	Total/NA	Solid	Total BTEX	
880-45542-10	B-21-4'	Total/NA	Solid	Total BTEX	
880-45542-11	Soil Pile	Total/NA	Solid	Total BTEX	
880-45542-12	SW-6-0-4'	Total/NA	Solid	Total BTEX	
880-45542-13	SW-7-0-4'	Total/NA	Solid	Total BTEX	

Analysis Batch: 85014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-1	B-22	Total/NA	Solid	8021B	85024
890-6879-2	B-23	Total/NA	Solid	8021B	85024
890-6879-3	B-24	Total/NA	Solid	8021B	85024
890-6879-4	B-25	Total/NA	Solid	8021B	85024
890-6879-5	B-26	Total/NA	Solid	8021B	85024
890-6879-6	B-27	Total/NA	Solid	8021B	85024
890-6879-7	B-28	Total/NA	Solid	8021B	85024
890-6879-8	SW-8	Total/NA	Solid	8021B	85024
890-6879-9	SW-9	Total/NA	Solid	8021B	85024
890-6879-10	SW-10	Total/NA	Solid	8021B	85024
890-6879-11	SW-1A	Total/NA	Solid	8021B	85024
MB 880-85024/5-A	Method Blank	Total/NA	Solid	8021B	85024
LCS 880-85024/1-A	Lab Control Sample	Total/NA	Solid	8021B	85024
LCSD 880-85024/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85024

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC VOA

Analysis Batch: 85016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-12	B-29	Total/NA	Solid	8021B	85029
890-6879-13	B-30	Total/NA	Solid	8021B	85029
890-6879-14	B-31	Total/NA	Solid	8021B	85029
890-6879-15	B-32	Total/NA	Solid	8021B	85029
890-6879-16	B-33	Total/NA	Solid	8021B	85029
890-6879-17	B-34	Total/NA	Solid	8021B	85029
890-6879-18	B-35	Total/NA	Solid	8021B	85029
890-6879-19	B-36	Total/NA	Solid	8021B	85029
890-6879-20	SW-11	Total/NA	Solid	8021B	85029
890-6879-21	SW-12	Total/NA	Solid	8021B	85029
890-6879-22	SW-13	Total/NA	Solid	8021B	85029
MB 880-85029/5-A	Method Blank	Total/NA	Solid	8021B	85029
LCS 880-85029/1-A	Lab Control Sample	Total/NA	Solid	8021B	85029
LCSD 880-85029/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85029
890-6879-12 MS	B-29	Total/NA	Solid	8021B	85029
890-6879-12 MSD	B-29	Total/NA	Solid	8021B	85029

Prep Batch: 85024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-1	B-22	Total/NA	Solid	5035	
890-6879-2	B-23	Total/NA	Solid	5035	
890-6879-3	B-24	Total/NA	Solid	5035	
890-6879-4	B-25	Total/NA	Solid	5035	
890-6879-5	B-26	Total/NA	Solid	5035	
890-6879-6	B-27	Total/NA	Solid	5035	
890-6879-7	B-28	Total/NA	Solid	5035	
890-6879-8	SW-8	Total/NA	Solid	5035	
890-6879-9	SW-9	Total/NA	Solid	5035	
890-6879-10	SW-10	Total/NA	Solid	5035	
890-6879-11	SW-1A	Total/NA	Solid	5035	
MB 880-85024/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-85024/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-85024/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 85029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-12	B-29	Total/NA	Solid	5035	
890-6879-13	B-30	Total/NA	Solid	5035	
890-6879-14	B-31	Total/NA	Solid	5035	
890-6879-15	B-32	Total/NA	Solid	5035	
890-6879-16	B-33	Total/NA	Solid	5035	
890-6879-17	B-34	Total/NA	Solid	5035	
890-6879-18	B-35	Total/NA	Solid	5035	
890-6879-19	B-36	Total/NA	Solid	5035	
890-6879-20	SW-11	Total/NA	Solid	5035	
890-6879-21	SW-12	Total/NA	Solid	5035	
890-6879-22	SW-13	Total/NA	Solid	5035	
MB 880-85029/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-85029/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-85029/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6879-12 MS	B-29	Total/NA	Solid	5035	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC VOA (Continued)

Prep Batch: 85029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-12 MSD	B-29	Total/NA	Solid	5035	

Analysis Batch: 85178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-1	B-22	Total/NA	Solid	Total BTEX	
890-6879-2	B-23	Total/NA	Solid	Total BTEX	
890-6879-3	B-24	Total/NA	Solid	Total BTEX	
890-6879-4	B-25	Total/NA	Solid	Total BTEX	
890-6879-5	B-26	Total/NA	Solid	Total BTEX	
890-6879-6	B-27	Total/NA	Solid	Total BTEX	
890-6879-7	B-28	Total/NA	Solid	Total BTEX	
890-6879-8	SW-8	Total/NA	Solid	Total BTEX	
890-6879-9	SW-9	Total/NA	Solid	Total BTEX	
890-6879-10	SW-10	Total/NA	Solid	Total BTEX	
890-6879-11	SW-1A	Total/NA	Solid	Total BTEX	
890-6879-12	B-29	Total/NA	Solid	Total BTEX	
890-6879-13	B-30	Total/NA	Solid	Total BTEX	
890-6879-14	B-31	Total/NA	Solid	Total BTEX	
890-6879-15	B-32	Total/NA	Solid	Total BTEX	
890-6879-16	B-33	Total/NA	Solid	Total BTEX	
890-6879-17	B-34	Total/NA	Solid	Total BTEX	
890-6879-18	B-35	Total/NA	Solid	Total BTEX	
890-6879-19	B-36	Total/NA	Solid	Total BTEX	
890-6879-20	SW-11	Total/NA	Solid	Total BTEX	
890-6879-21	SW-12	Total/NA	Solid	Total BTEX	
890-6879-22	SW-13	Total/NA	Solid	Total BTEX	

Analysis Batch: 85411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-1	B - 37 - 5'	Total/NA	Solid	8021B	85417
890-6921-2	B - 38 - 5'	Total/NA	Solid	8021B	85417
890-6921-3	B - 39 - 5'	Total/NA	Solid	8021B	85417
890-6921-4	B - 40 - 5'	Total/NA	Solid	8021B	85417
890-6921-5	B - 41 - 5'	Total/NA	Solid	8021B	85417
890-6921-6	B - 42 - 5'	Total/NA	Solid	8021B	85417
890-6921-7	B - 43 - 5'	Total/NA	Solid	8021B	85417
890-6921-8	B - 44 - 5'	Total/NA	Solid	8021B	85417
MB 880-85417/5-A	Method Blank	Total/NA	Solid	8021B	85417
LCS 880-85417/1-A	Lab Control Sample	Total/NA	Solid	8021B	85417
LCSD 880-85417/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85417
890-6921-1 MS	B - 37 - 5'	Total/NA	Solid	8021B	85417
890-6921-1 MSD	B - 37 - 5'	Total/NA	Solid	8021B	85417

Analysis Batch: 85412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-15	B - 46 - 4'	Total/NA	Solid	8021B	85421
890-6921-16	B - 47 - 4'	Total/NA	Solid	8021B	85421
890-6921-17	B - 48 - 4'	Total/NA	Solid	8021B	85421
890-6921-18	B - 49 - 4'	Total/NA	Solid	8021B	85421
890-6921-19	B - 50 - 4'	Total/NA	Solid	8021B	85421
890-6921-20	B - 51 - 4'	Total/NA	Solid	8021B	85421

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC VOA (Continued)

Analysis Batch: 85412 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-21	B - 52 - 4'	Total/NA	Solid	8021B	85421
MB 880-85421/5-A	Method Blank	Total/NA	Solid	8021B	85421
LCS 880-85421/1-A	Lab Control Sample	Total/NA	Solid	8021B	85421
LCSD 880-85421/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85421
890-6921-15 MS	B - 46 - 4'	Total/NA	Solid	8021B	85421
890-6921-15 MSD	B - 46 - 4'	Total/NA	Solid	8021B	85421

Analysis Batch: 85413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-9	SW - 14 - 0 - 5'	Total/NA	Solid	8021B	85419
890-6921-10	SW - 15 - 0 - 5'	Total/NA	Solid	8021B	85419
890-6921-11	B - 7A - 6'	Total/NA	Solid	8021B	85419
890-6921-12	SW - 16 - 0 - 4'	Total/NA	Solid	8021B	85419
890-6921-13	SW - 17 - 0 - 4'	Total/NA	Solid	8021B	85419
890-6921-14	B - 45 - 4'	Total/NA	Solid	8021B	85419
MB 880-85419/5-A	Method Blank	Total/NA	Solid	8021B	85419
LCS 880-85419/1-A	Lab Control Sample	Total/NA	Solid	8021B	85419
LCSD 880-85419/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85419
890-6921-9 MS	SW - 14 - 0 - 5'	Total/NA	Solid	8021B	85419
890-6921-9 MSD	SW - 14 - 0 - 5'	Total/NA	Solid	8021B	85419

Prep Batch: 85417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-1	B - 37 - 5'	Total/NA	Solid	5030B	
890-6921-2	B - 38 - 5'	Total/NA	Solid	5030B	
890-6921-3	B - 39 - 5'	Total/NA	Solid	5030B	
890-6921-4	B - 40 - 5'	Total/NA	Solid	5030B	
890-6921-5	B - 41 - 5'	Total/NA	Solid	5030B	
890-6921-6	B - 42 - 5'	Total/NA	Solid	5030B	
890-6921-7	B - 43 - 5'	Total/NA	Solid	5030B	
890-6921-8	B - 44 - 5'	Total/NA	Solid	5030B	
MB 880-85417/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-85417/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-85417/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-6921-1 MS	B - 37 - 5'	Total/NA	Solid	5030B	
890-6921-1 MSD	B - 37 - 5'	Total/NA	Solid	5030B	

Prep Batch: 85419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-9	SW - 14 - 0 - 5'	Total/NA	Solid	5030B	
890-6921-10	SW - 15 - 0 - 5'	Total/NA	Solid	5030B	
890-6921-11	B - 7A - 6'	Total/NA	Solid	5030B	
890-6921-12	SW - 16 - 0 - 4'	Total/NA	Solid	5030B	
890-6921-13	SW - 17 - 0 - 4'	Total/NA	Solid	5030B	
890-6921-14	B - 45 - 4'	Total/NA	Solid	5030B	
MB 880-85419/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-85419/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-85419/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-6921-9 MS	SW - 14 - 0 - 5'	Total/NA	Solid	5030B	
890-6921-9 MSD	SW - 14 - 0 - 5'	Total/NA	Solid	5030B	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC VOA

Prep Batch: 85421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-15	B - 46 - 4'	Total/NA	Solid	5030B	
890-6921-16	B - 47 - 4'	Total/NA	Solid	5030B	
890-6921-17	B - 48 - 4'	Total/NA	Solid	5030B	
890-6921-18	B - 49 - 4'	Total/NA	Solid	5030B	
890-6921-19	B - 50 - 4'	Total/NA	Solid	5030B	
890-6921-20	B - 51 - 4'	Total/NA	Solid	5030B	
890-6921-21	B - 52 - 4'	Total/NA	Solid	5030B	
MB 880-85421/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-85421/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-85421/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-6921-15 MS	B - 46 - 4'	Total/NA	Solid	5030B	
890-6921-15 MSD	B - 46 - 4'	Total/NA	Solid	5030B	

Analysis Batch: 85492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-1	B - 37 - 5'	Total/NA	Solid	Total BTEX	
890-6921-2	B - 38 - 5'	Total/NA	Solid	Total BTEX	
890-6921-3	B - 39 - 5'	Total/NA	Solid	Total BTEX	
890-6921-4	B - 40 - 5'	Total/NA	Solid	Total BTEX	
890-6921-5	B - 41 - 5'	Total/NA	Solid	Total BTEX	
890-6921-6	B - 42 - 5'	Total/NA	Solid	Total BTEX	
890-6921-7	B - 43 - 5'	Total/NA	Solid	Total BTEX	
890-6921-8	B - 44 - 5'	Total/NA	Solid	Total BTEX	
890-6921-9	SW - 14 - 0 - 5'	Total/NA	Solid	Total BTEX	
890-6921-10	SW - 15 - 0 - 5'	Total/NA	Solid	Total BTEX	
890-6921-11	B - 7A - 6'	Total/NA	Solid	Total BTEX	
890-6921-12	SW - 16 - 0 - 4'	Total/NA	Solid	Total BTEX	
890-6921-13	SW - 17 - 0 - 4'	Total/NA	Solid	Total BTEX	
890-6921-14	B - 45 - 4'	Total/NA	Solid	Total BTEX	
890-6921-15	B - 46 - 4'	Total/NA	Solid	Total BTEX	
890-6921-16	B - 47 - 4'	Total/NA	Solid	Total BTEX	
890-6921-17	B - 48 - 4'	Total/NA	Solid	Total BTEX	
890-6921-18	B - 49 - 4'	Total/NA	Solid	Total BTEX	
890-6921-19	B - 50 - 4'	Total/NA	Solid	Total BTEX	
890-6921-20	B - 51 - 4'	Total/NA	Solid	Total BTEX	
890-6921-21	B - 52 - 4'	Total/NA	Solid	Total BTEX	

Prep Batch: 85513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-1	B-53-4	Total/NA	Solid	5030B	
890-6926-3	B-55-4	Total/NA	Solid	5030B	
890-6926-4	B-56-4	Total/NA	Solid	5030B	
890-6926-5	B-57-4	Total/NA	Solid	5030B	
890-6926-6	B-58-4	Total/NA	Solid	5030B	
890-6926-7	B-59-4	Total/NA	Solid	5030B	
890-6926-10	SW-20-0-4	Total/NA	Solid	5030B	
890-6929-1	B-54-4	Total/NA	Solid	5030B	
890-6929-2	SW-18-4	Total/NA	Solid	5030B	
890-6929-3	SW-19-4	Total/NA	Solid	5030B	
MB 880-85513/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-85513/1-A	Lab Control Sample	Total/NA	Solid	5030B	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC VOA (Continued)

Prep Batch: 85513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-85513/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-6926-1 MS	B-53-4	Total/NA	Solid	5030B	
890-6926-1 MSD	B-53-4	Total/NA	Solid	5030B	

Analysis Batch: 85517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-1	B-53-4	Total/NA	Solid	8021B	85513
890-6926-3	B-55-4	Total/NA	Solid	8021B	85513
890-6926-4	B-56-4	Total/NA	Solid	8021B	85513
890-6926-5	B-57-4	Total/NA	Solid	8021B	85513
890-6926-6	B-58-4	Total/NA	Solid	8021B	85513
890-6926-7	B-59-4	Total/NA	Solid	8021B	85513
890-6926-10	SW-20-0-4	Total/NA	Solid	8021B	85513
890-6929-1	B-54-4	Total/NA	Solid	8021B	85513
890-6929-2	SW-18-4	Total/NA	Solid	8021B	85513
890-6929-3	SW-19-4	Total/NA	Solid	8021B	85513
MB 880-85513/5-A	Method Blank	Total/NA	Solid	8021B	85513
LCS 880-85513/1-A	Lab Control Sample	Total/NA	Solid	8021B	85513
LCSD 880-85513/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85513
890-6926-1 MS	B-53-4	Total/NA	Solid	8021B	85513
890-6926-1 MSD	B-53-4	Total/NA	Solid	8021B	85513

Analysis Batch: 85610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-1	B-53-4	Total/NA	Solid	Total BTEX	
890-6926-3	B-55-4	Total/NA	Solid	Total BTEX	
890-6926-4	B-56-4	Total/NA	Solid	Total BTEX	
890-6926-5	B-57-4	Total/NA	Solid	Total BTEX	
890-6926-6	B-58-4	Total/NA	Solid	Total BTEX	
890-6926-7	B-59-4	Total/NA	Solid	Total BTEX	
890-6926-10	SW-20-0-4	Total/NA	Solid	Total BTEX	

Analysis Batch: 85611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6929-1	B-54-4	Total/NA	Solid	Total BTEX	
890-6929-2	SW-18-4	Total/NA	Solid	Total BTEX	
890-6929-3	SW-19-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 84377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-1	SW-1-0-2.5'	Total/NA	Solid	8015NM Prep	
880-45311-2	SW-2-0-2.5'	Total/NA	Solid	8015NM Prep	
880-45311-3	B-1-2.5'	Total/NA	Solid	8015NM Prep	
880-45311-4	B-2-2.5'	Total/NA	Solid	8015NM Prep	
880-45311-5	B-3-2.5'	Total/NA	Solid	8015NM Prep	
880-45311-6	B-4-2.5'	Total/NA	Solid	8015NM Prep	
MB 880-84377/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84377/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84377/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC Semi VOA

Analysis Batch: 84437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-1	SW-1-0-2.5'	Total/NA	Solid	8015B NM	84377
880-45311-2	SW-2-0-2.5'	Total/NA	Solid	8015B NM	84377
880-45311-3	B-1-2.5'	Total/NA	Solid	8015B NM	84377
880-45311-4	B-2-2.5'	Total/NA	Solid	8015B NM	84377
880-45311-5	B-3-2.5'	Total/NA	Solid	8015B NM	84377
880-45311-6	B-4-2.5'	Total/NA	Solid	8015B NM	84377
MB 880-84377/1-A	Method Blank	Total/NA	Solid	8015B NM	84377
LCS 880-84377/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84377
LCSD 880-84377/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84377

Analysis Batch: 84442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-7	B-5-2.5'	Total/NA	Solid	8015B NM	84443
880-45355-1	SW-3-0-6'	Total/NA	Solid	8015B NM	84443
880-45355-2	SW-4-0-6'	Total/NA	Solid	8015B NM	84443
880-45355-3	SW-5-0-6'	Total/NA	Solid	8015B NM	84443
880-45355-4	B-6-6'	Total/NA	Solid	8015B NM	84443
880-45355-5	B-7-6'	Total/NA	Solid	8015B NM	84443
880-45355-6	B-8-6'	Total/NA	Solid	8015B NM	84443
880-45355-7	B-9-3'	Total/NA	Solid	8015B NM	84443
880-45355-8	B-10-3'	Total/NA	Solid	8015B NM	84443
MB 880-84443/1-A	Method Blank	Total/NA	Solid	8015B NM	84443
LCS 880-84443/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84443
LCSD 880-84443/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84443

Prep Batch: 84443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-7	B-5-2.5'	Total/NA	Solid	8015NM Prep	
880-45355-1	SW-3-0-6'	Total/NA	Solid	8015NM Prep	
880-45355-2	SW-4-0-6'	Total/NA	Solid	8015NM Prep	
880-45355-3	SW-5-0-6'	Total/NA	Solid	8015NM Prep	
880-45355-4	B-6-6'	Total/NA	Solid	8015NM Prep	
880-45355-5	B-7-6'	Total/NA	Solid	8015NM Prep	
880-45355-6	B-8-6'	Total/NA	Solid	8015NM Prep	
880-45355-7	B-9-3'	Total/NA	Solid	8015NM Prep	
880-45355-8	B-10-3'	Total/NA	Solid	8015NM Prep	
MB 880-84443/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84443/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84443/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 84594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6856-1	B - 13 - 3'	Total/NA	Solid	8015NM Prep	
MB 880-84594/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84594/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84594/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6856-1	B - 13 - 3'	Total/NA	Solid	8015B NM	84594
MB 880-84594/1-A	Method Blank	Total/NA	Solid	8015B NM	84594

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC Semi VOA (Continued)

Analysis Batch: 84647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-84594/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84594
LCSD 880-84594/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84594

Analysis Batch: 84739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-1	SW-1-0-2.5'	Total/NA	Solid	8015 NM	
880-45311-2	SW-2-0-2.5'	Total/NA	Solid	8015 NM	
880-45311-3	B-1-2.5'	Total/NA	Solid	8015 NM	
880-45311-4	B-2-2.5'	Total/NA	Solid	8015 NM	
880-45311-5	B-3-2.5'	Total/NA	Solid	8015 NM	
880-45311-6	B-4-2.5'	Total/NA	Solid	8015 NM	
880-45311-7	B-5-2.5'	Total/NA	Solid	8015 NM	

Analysis Batch: 84740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45355-1	SW-3-0-6'	Total/NA	Solid	8015 NM	
880-45355-2	SW-4-0-6'	Total/NA	Solid	8015 NM	
880-45355-3	SW-5-0-6'	Total/NA	Solid	8015 NM	
880-45355-4	B-6-6'	Total/NA	Solid	8015 NM	
880-45355-5	B-7-6'	Total/NA	Solid	8015 NM	
880-45355-6	B-8-6'	Total/NA	Solid	8015 NM	
880-45355-7	B-9-3'	Total/NA	Solid	8015 NM	
880-45355-8	B-10-3'	Total/NA	Solid	8015 NM	

Analysis Batch: 84855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6856-1	B - 13 - 3'	Total/NA	Solid	8015 NM	

Prep Batch: 84901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-1	B-11-4'	Total/NA	Solid	8015NM Prep	
880-45542-2	B-12-4'	Total/NA	Solid	8015NM Prep	
880-45542-3	B-14-4'	Total/NA	Solid	8015NM Prep	
880-45542-4	B-15-4'	Total/NA	Solid	8015NM Prep	
880-45542-5	B-16-4'	Total/NA	Solid	8015NM Prep	
880-45542-6	B-17-4'	Total/NA	Solid	8015NM Prep	
880-45542-7	B-18-4'	Total/NA	Solid	8015NM Prep	
880-45542-8	B-19-4'	Total/NA	Solid	8015NM Prep	
880-45542-9	B-20-4'	Total/NA	Solid	8015NM Prep	
880-45542-10	B-21-4'	Total/NA	Solid	8015NM Prep	
880-45542-11	Soil Pile	Total/NA	Solid	8015NM Prep	
880-45542-12	SW-6-0-4'	Total/NA	Solid	8015NM Prep	
880-45542-13	SW-7-0-4'	Total/NA	Solid	8015NM Prep	
MB 880-84901/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84901/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84901/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45542-1 MS	B-11-4'	Total/NA	Solid	8015NM Prep	
880-45542-1 MSD	B-11-4'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC Semi VOA

Analysis Batch: 84928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-1	B-11-4'	Total/NA	Solid	8015B NM	84901
880-45542-2	B-12-4'	Total/NA	Solid	8015B NM	84901
880-45542-3	B-14-4'	Total/NA	Solid	8015B NM	84901
880-45542-4	B-15-4'	Total/NA	Solid	8015B NM	84901
880-45542-5	B-16-4'	Total/NA	Solid	8015B NM	84901
880-45542-6	B-17-4'	Total/NA	Solid	8015B NM	84901
880-45542-7	B-18-4'	Total/NA	Solid	8015B NM	84901
880-45542-8	B-19-4'	Total/NA	Solid	8015B NM	84901
880-45542-9	B-20-4'	Total/NA	Solid	8015B NM	84901
880-45542-10	B-21-4'	Total/NA	Solid	8015B NM	84901
880-45542-11	Soil Pile	Total/NA	Solid	8015B NM	84901
880-45542-12	SW-6-0-4'	Total/NA	Solid	8015B NM	84901
880-45542-13	SW-7-0-4'	Total/NA	Solid	8015B NM	84901
MB 880-84901/1-A	Method Blank	Total/NA	Solid	8015B NM	84901
LCS 880-84901/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84901
LCSD 880-84901/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84901
880-45542-1 MS	B-11-4'	Total/NA	Solid	8015B NM	84901
880-45542-1 MSD	B-11-4'	Total/NA	Solid	8015B NM	84901

Analysis Batch: 84999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-1	B-11-4'	Total/NA	Solid	8015 NM	
880-45542-2	B-12-4'	Total/NA	Solid	8015 NM	
880-45542-3	B-14-4'	Total/NA	Solid	8015 NM	
880-45542-4	B-15-4'	Total/NA	Solid	8015 NM	
880-45542-5	B-16-4'	Total/NA	Solid	8015 NM	
880-45542-6	B-17-4'	Total/NA	Solid	8015 NM	
880-45542-7	B-18-4'	Total/NA	Solid	8015 NM	
880-45542-8	B-19-4'	Total/NA	Solid	8015 NM	
880-45542-9	B-20-4'	Total/NA	Solid	8015 NM	
880-45542-10	B-21-4'	Total/NA	Solid	8015 NM	
880-45542-11	Soil Pile	Total/NA	Solid	8015 NM	
880-45542-12	SW-6-0-4'	Total/NA	Solid	8015 NM	
880-45542-13	SW-7-0-4'	Total/NA	Solid	8015 NM	

Analysis Batch: 85003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-1	B-22	Total/NA	Solid	8015B NM	85020
890-6879-2	B-23	Total/NA	Solid	8015B NM	85020
890-6879-3	B-24	Total/NA	Solid	8015B NM	85020
890-6879-4	B-25	Total/NA	Solid	8015B NM	85020
890-6879-5	B-26	Total/NA	Solid	8015B NM	85020
890-6879-6	B-27	Total/NA	Solid	8015B NM	85020
890-6879-7	B-28	Total/NA	Solid	8015B NM	85020
890-6879-8	SW-8	Total/NA	Solid	8015B NM	85020
890-6879-9	SW-9	Total/NA	Solid	8015B NM	85020
890-6879-10	SW-10	Total/NA	Solid	8015B NM	85020
890-6879-11	SW-1A	Total/NA	Solid	8015B NM	85020
890-6879-12	B-29	Total/NA	Solid	8015B NM	85020
890-6879-13	B-30	Total/NA	Solid	8015B NM	85020
890-6879-14	B-31	Total/NA	Solid	8015B NM	85020

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC Semi VOA (Continued)

Analysis Batch: 85003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-15	B-32	Total/NA	Solid	8015B NM	85020
890-6879-16	B-33	Total/NA	Solid	8015B NM	85020
890-6879-17	B-34	Total/NA	Solid	8015B NM	85020
890-6879-18	B-35	Total/NA	Solid	8015B NM	85020
890-6879-19	B-36	Total/NA	Solid	8015B NM	85020
890-6879-20	SW-11	Total/NA	Solid	8015B NM	85020
MB 880-85020/1-A	Method Blank	Total/NA	Solid	8015B NM	85020
LCS 880-85020/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85020
LCSD 880-85020/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85020

Prep Batch: 85020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-1	B-22	Total/NA	Solid	8015NM Prep	
890-6879-2	B-23	Total/NA	Solid	8015NM Prep	
890-6879-3	B-24	Total/NA	Solid	8015NM Prep	
890-6879-4	B-25	Total/NA	Solid	8015NM Prep	
890-6879-5	B-26	Total/NA	Solid	8015NM Prep	
890-6879-6	B-27	Total/NA	Solid	8015NM Prep	
890-6879-7	B-28	Total/NA	Solid	8015NM Prep	
890-6879-8	SW-8	Total/NA	Solid	8015NM Prep	
890-6879-9	SW-9	Total/NA	Solid	8015NM Prep	
890-6879-10	SW-10	Total/NA	Solid	8015NM Prep	
890-6879-11	SW-1A	Total/NA	Solid	8015NM Prep	
890-6879-12	B-29	Total/NA	Solid	8015NM Prep	
890-6879-13	B-30	Total/NA	Solid	8015NM Prep	
890-6879-14	B-31	Total/NA	Solid	8015NM Prep	
890-6879-15	B-32	Total/NA	Solid	8015NM Prep	
890-6879-16	B-33	Total/NA	Solid	8015NM Prep	
890-6879-17	B-34	Total/NA	Solid	8015NM Prep	
890-6879-18	B-35	Total/NA	Solid	8015NM Prep	
890-6879-19	B-36	Total/NA	Solid	8015NM Prep	
890-6879-20	SW-11	Total/NA	Solid	8015NM Prep	
MB 880-85020/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85020/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85020/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 85021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-21	SW-12	Total/NA	Solid	8015NM Prep	
890-6879-22	SW-13	Total/NA	Solid	8015NM Prep	
MB 880-85021/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85021/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85021/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6879-21 MS	SW-12	Total/NA	Solid	8015NM Prep	
890-6879-21 MSD	SW-12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-21	SW-12	Total/NA	Solid	8015B NM	85021
890-6879-22	SW-13	Total/NA	Solid	8015B NM	85021
MB 880-85021/1-A	Method Blank	Total/NA	Solid	8015B NM	85021

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC Semi VOA (Continued)

Analysis Batch: 85095 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-85021/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85021
LCSD 880-85021/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85021
890-6879-21 MS	SW-12	Total/NA	Solid	8015B NM	85021
890-6879-21 MSD	SW-12	Total/NA	Solid	8015B NM	85021

Analysis Batch: 85170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-1	B-22	Total/NA	Solid	8015 NM	
890-6879-2	B-23	Total/NA	Solid	8015 NM	
890-6879-3	B-24	Total/NA	Solid	8015 NM	
890-6879-4	B-25	Total/NA	Solid	8015 NM	
890-6879-5	B-26	Total/NA	Solid	8015 NM	
890-6879-6	B-27	Total/NA	Solid	8015 NM	
890-6879-7	B-28	Total/NA	Solid	8015 NM	
890-6879-8	SW-8	Total/NA	Solid	8015 NM	
890-6879-9	SW-9	Total/NA	Solid	8015 NM	
890-6879-10	SW-10	Total/NA	Solid	8015 NM	
890-6879-11	SW-1A	Total/NA	Solid	8015 NM	
890-6879-12	B-29	Total/NA	Solid	8015 NM	
890-6879-13	B-30	Total/NA	Solid	8015 NM	
890-6879-14	B-31	Total/NA	Solid	8015 NM	
890-6879-15	B-32	Total/NA	Solid	8015 NM	
890-6879-16	B-33	Total/NA	Solid	8015 NM	
890-6879-17	B-34	Total/NA	Solid	8015 NM	
890-6879-18	B-35	Total/NA	Solid	8015 NM	
890-6879-19	B-36	Total/NA	Solid	8015 NM	
890-6879-20	SW-11	Total/NA	Solid	8015 NM	
890-6879-21	SW-12	Total/NA	Solid	8015 NM	
890-6879-22	SW-13	Total/NA	Solid	8015 NM	

Prep Batch: 85376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-1	B - 37 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-2	B - 38 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-3	B - 39 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-4	B - 40 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-5	B - 41 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-6	B - 42 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-7	B - 43 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-8	B - 44 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-9	SW - 14 - 0 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-10	SW - 15 - 0 - 5'	Total/NA	Solid	8015NM Prep	
MB 880-85376/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85376/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6921-1 MS	B - 37 - 5'	Total/NA	Solid	8015NM Prep	
890-6921-1 MSD	B - 37 - 5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-1	B - 37 - 5'	Total/NA	Solid	8015B NM	85376

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC Semi VOA (Continued)

Analysis Batch: 85442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-2	B - 38 - 5'	Total/NA	Solid	8015B NM	85376
890-6921-3	B - 39 - 5'	Total/NA	Solid	8015B NM	85376
890-6921-4	B - 40 - 5'	Total/NA	Solid	8015B NM	85376
890-6921-5	B - 41 - 5'	Total/NA	Solid	8015B NM	85376
890-6921-6	B - 42 - 5'	Total/NA	Solid	8015B NM	85376
890-6921-7	B - 43 - 5'	Total/NA	Solid	8015B NM	85376
890-6921-8	B - 44 - 5'	Total/NA	Solid	8015B NM	85376
890-6921-9	SW - 14 - 0 - 5'	Total/NA	Solid	8015B NM	85376
890-6921-10	SW - 15 - 0 - 5'	Total/NA	Solid	8015B NM	85376
MB 880-85376/1-A	Method Blank	Total/NA	Solid	8015B NM	85376
LCS 880-85376/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85376
LCSD 880-85376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85376
890-6921-1 MS	B - 37 - 5'	Total/NA	Solid	8015B NM	85376
890-6921-1 MSD	B - 37 - 5'	Total/NA	Solid	8015B NM	85376

Prep Batch: 85546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-1	B-53-4	Total/NA	Solid	8015NM Prep	
890-6926-3	B-55-4	Total/NA	Solid	8015NM Prep	
890-6929-1	B-54-4	Total/NA	Solid	8015NM Prep	
890-6929-2	SW-18-4	Total/NA	Solid	8015NM Prep	
890-6929-3	SW-19-4	Total/NA	Solid	8015NM Prep	
MB 880-85546/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85546/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 85557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-11	B - 7A - 6'	Total/NA	Solid	8015NM Prep	
890-6921-12	SW - 16 - 0 - 4'	Total/NA	Solid	8015NM Prep	
890-6921-13	SW - 17 - 0 - 4'	Total/NA	Solid	8015NM Prep	
890-6921-14	B - 45 - 4'	Total/NA	Solid	8015NM Prep	
890-6921-15	B - 46 - 4'	Total/NA	Solid	8015NM Prep	
890-6921-16	B - 47 - 4'	Total/NA	Solid	8015NM Prep	
890-6921-17	B - 48 - 4'	Total/NA	Solid	8015NM Prep	
890-6921-18	B - 49 - 4'	Total/NA	Solid	8015NM Prep	
890-6921-19	B - 50 - 4'	Total/NA	Solid	8015NM Prep	
890-6921-20	B - 51 - 4'	Total/NA	Solid	8015NM Prep	
890-6921-21	B - 52 - 4'	Total/NA	Solid	8015NM Prep	
MB 880-85557/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85557/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-1	B - 37 - 5'	Total/NA	Solid	8015 NM	
890-6921-2	B - 38 - 5'	Total/NA	Solid	8015 NM	
890-6921-3	B - 39 - 5'	Total/NA	Solid	8015 NM	
890-6921-4	B - 40 - 5'	Total/NA	Solid	8015 NM	
890-6921-5	B - 41 - 5'	Total/NA	Solid	8015 NM	
890-6921-6	B - 42 - 5'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC Semi VOA (Continued)

Analysis Batch: 85559 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-7	B - 43 - 5'	Total/NA	Solid	8015 NM	
890-6921-8	B - 44 - 5'	Total/NA	Solid	8015 NM	
890-6921-9	SW - 14 - 0 - 5'	Total/NA	Solid	8015 NM	
890-6921-10	SW - 15 - 0 - 5'	Total/NA	Solid	8015 NM	
890-6921-11	B - 7A - 6'	Total/NA	Solid	8015 NM	
890-6921-12	SW - 16 - 0 - 4'	Total/NA	Solid	8015 NM	
890-6921-13	SW - 17 - 0 - 4'	Total/NA	Solid	8015 NM	
890-6921-14	B - 45 - 4'	Total/NA	Solid	8015 NM	
890-6921-15	B - 46 - 4'	Total/NA	Solid	8015 NM	
890-6921-16	B - 47 - 4'	Total/NA	Solid	8015 NM	
890-6921-17	B - 48 - 4'	Total/NA	Solid	8015 NM	
890-6921-18	B - 49 - 4'	Total/NA	Solid	8015 NM	
890-6921-19	B - 50 - 4'	Total/NA	Solid	8015 NM	
890-6921-20	B - 51 - 4'	Total/NA	Solid	8015 NM	
890-6921-21	B - 52 - 4'	Total/NA	Solid	8015 NM	

Prep Batch: 85572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-4	B-56-4	Total/NA	Solid	8015NM Prep	
890-6926-5	B-57-4	Total/NA	Solid	8015NM Prep	
890-6926-6	B-58-4	Total/NA	Solid	8015NM Prep	
890-6926-7	B-59-4	Total/NA	Solid	8015NM Prep	
890-6926-10	SW-20-0-4	Total/NA	Solid	8015NM Prep	
MB 880-85572/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85572/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6926-4 MS	B-56-4	Total/NA	Solid	8015NM Prep	
890-6926-4 MSD	B-56-4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-1	B-53-4	Total/NA	Solid	8015B NM	85546
890-6926-3	B-55-4	Total/NA	Solid	8015B NM	85546
890-6929-1	B-54-4	Total/NA	Solid	8015B NM	85546
890-6929-2	SW-18-4	Total/NA	Solid	8015B NM	85546
890-6929-3	SW-19-4	Total/NA	Solid	8015B NM	85546
MB 880-85546/1-A	Method Blank	Total/NA	Solid	8015B NM	85546
LCS 880-85546/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85546
LCSD 880-85546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85546

Analysis Batch: 85584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-4	B-56-4	Total/NA	Solid	8015B NM	85572
890-6926-5	B-57-4	Total/NA	Solid	8015B NM	85572
890-6926-6	B-58-4	Total/NA	Solid	8015B NM	85572
890-6926-7	B-59-4	Total/NA	Solid	8015B NM	85572
890-6926-10	SW-20-0-4	Total/NA	Solid	8015B NM	85572
MB 880-85572/1-A	Method Blank	Total/NA	Solid	8015B NM	85572
LCS 880-85572/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85572
LCSD 880-85572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85572
890-6926-4 MS	B-56-4	Total/NA	Solid	8015B NM	85572

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

GC Semi VOA (Continued)

Analysis Batch: 85584 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-4 MSD	B-56-4	Total/NA	Solid	8015B NM	85572

Analysis Batch: 85608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-11	B - 7A - 6'	Total/NA	Solid	8015B NM	85557
890-6921-12	SW - 16 - 0 - 4'	Total/NA	Solid	8015B NM	85557
890-6921-13	SW - 17 - 0 - 4'	Total/NA	Solid	8015B NM	85557
890-6921-14	B - 45 - 4'	Total/NA	Solid	8015B NM	85557
890-6921-15	B - 46 - 4'	Total/NA	Solid	8015B NM	85557
890-6921-16	B - 47 - 4'	Total/NA	Solid	8015B NM	85557
890-6921-17	B - 48 - 4'	Total/NA	Solid	8015B NM	85557
890-6921-18	B - 49 - 4'	Total/NA	Solid	8015B NM	85557
890-6921-19	B - 50 - 4'	Total/NA	Solid	8015B NM	85557
890-6921-20	B - 51 - 4'	Total/NA	Solid	8015B NM	85557
890-6921-21	B - 52 - 4'	Total/NA	Solid	8015B NM	85557
MB 880-85557/1-A	Method Blank	Total/NA	Solid	8015B NM	85557
LCS 880-85557/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85557
LCSD 880-85557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85557

Analysis Batch: 85753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-1	B-53-4	Total/NA	Solid	8015 NM	
890-6926-3	B-55-4	Total/NA	Solid	8015 NM	
890-6926-4	B-56-4	Total/NA	Solid	8015 NM	
890-6926-5	B-57-4	Total/NA	Solid	8015 NM	
890-6926-6	B-58-4	Total/NA	Solid	8015 NM	
890-6926-7	B-59-4	Total/NA	Solid	8015 NM	
890-6926-10	SW-20-0-4	Total/NA	Solid	8015 NM	

Analysis Batch: 85754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6929-1	B-54-4	Total/NA	Solid	8015 NM	
890-6929-2	SW-18-4	Total/NA	Solid	8015 NM	
890-6929-3	SW-19-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 84355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-1	SW-1-0-2.5'	Soluble	Solid	DI Leach	
MB 880-84355/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84355/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84355/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45311-1 MS	SW-1-0-2.5'	Soluble	Solid	DI Leach	
880-45311-1 MSD	SW-1-0-2.5'	Soluble	Solid	DI Leach	

Analysis Batch: 84375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-1	SW-1-0-2.5'	Soluble	Solid	300.0	84355
MB 880-84355/1-A	Method Blank	Soluble	Solid	300.0	84355
LCS 880-84355/2-A	Lab Control Sample	Soluble	Solid	300.0	84355

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

HPLC/IC (Continued)

Analysis Batch: 84375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-84355/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84355
880-45311-1 MS	SW-1-0-2.5'	Soluble	Solid	300.0	84355
880-45311-1 MSD	SW-1-0-2.5'	Soluble	Solid	300.0	84355

Leach Batch: 84389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-2	SW-2-0-2.5'	Soluble	Solid	DI Leach	
880-45311-3	B-1-2.5'	Soluble	Solid	DI Leach	
880-45311-4	B-2-2.5'	Soluble	Solid	DI Leach	
880-45311-5	B-3-2.5'	Soluble	Solid	DI Leach	
880-45311-6	B-4-2.5'	Soluble	Solid	DI Leach	
880-45311-7	B-5-2.5'	Soluble	Solid	DI Leach	
MB 880-84389/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84389/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84389/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45311-2 MS	SW-2-0-2.5'	Soluble	Solid	DI Leach	
880-45311-2 MSD	SW-2-0-2.5'	Soluble	Solid	DI Leach	

Leach Batch: 84392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45355-1	SW-3-0-6'	Soluble	Solid	DI Leach	
880-45355-2	SW-4-0-6'	Soluble	Solid	DI Leach	
880-45355-3	SW-5-0-6'	Soluble	Solid	DI Leach	
880-45355-4	B-6-6'	Soluble	Solid	DI Leach	
880-45355-5	B-7-6'	Soluble	Solid	DI Leach	
880-45355-6	B-8-6'	Soluble	Solid	DI Leach	
MB 880-84392/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84392/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84392/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45355-1 MS	SW-3-0-6'	Soluble	Solid	DI Leach	
880-45355-1 MSD	SW-3-0-6'	Soluble	Solid	DI Leach	

Analysis Batch: 84413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45355-1	SW-3-0-6'	Soluble	Solid	300.0	84392
880-45355-2	SW-4-0-6'	Soluble	Solid	300.0	84392
880-45355-3	SW-5-0-6'	Soluble	Solid	300.0	84392
880-45355-4	B-6-6'	Soluble	Solid	300.0	84392
880-45355-5	B-7-6'	Soluble	Solid	300.0	84392
880-45355-6	B-8-6'	Soluble	Solid	300.0	84392
MB 880-84392/1-A	Method Blank	Soluble	Solid	300.0	84392
LCS 880-84392/2-A	Lab Control Sample	Soluble	Solid	300.0	84392
LCSD 880-84392/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84392
880-45355-1 MS	SW-3-0-6'	Soluble	Solid	300.0	84392
880-45355-1 MSD	SW-3-0-6'	Soluble	Solid	300.0	84392

Analysis Batch: 84505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-2	SW-2-0-2.5'	Soluble	Solid	300.0	84389
880-45311-3	B-1-2.5'	Soluble	Solid	300.0	84389
880-45311-4	B-2-2.5'	Soluble	Solid	300.0	84389

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

HPLC/IC (Continued)

Analysis Batch: 84505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45311-5	B-3-2.5'	Soluble	Solid	300.0	84389
880-45311-6	B-4-2.5'	Soluble	Solid	300.0	84389
880-45311-7	B-5-2.5'	Soluble	Solid	300.0	84389
MB 880-84389/1-A	Method Blank	Soluble	Solid	300.0	84389
LCS 880-84389/2-A	Lab Control Sample	Soluble	Solid	300.0	84389
LCSD 880-84389/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84389
880-45311-2 MS	SW-2-0-2.5'	Soluble	Solid	300.0	84389
880-45311-2 MSD	SW-2-0-2.5'	Soluble	Solid	300.0	84389

Leach Batch: 84580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6856-1	B - 13 - 3'	Soluble	Solid	DI Leach	
MB 880-84580/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84580/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84580/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 84649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6856-1	B - 13 - 3'	Soluble	Solid	300.0	84580
MB 880-84580/1-A	Method Blank	Soluble	Solid	300.0	84580
LCS 880-84580/2-A	Lab Control Sample	Soluble	Solid	300.0	84580
LCSD 880-84580/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84580

Leach Batch: 84854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-1	B-11-4'	Soluble	Solid	DI Leach	
880-45542-9	B-20-4'	Soluble	Solid	DI Leach	
880-45542-10	B-21-4'	Soluble	Solid	DI Leach	
880-45542-11	Soil Pile	Soluble	Solid	DI Leach	
880-45542-12	SW-6-0-4'	Soluble	Solid	DI Leach	
880-45542-13	SW-7-0-4'	Soluble	Solid	DI Leach	
MB 880-84854/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84854/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84854/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45542-12 MS	SW-6-0-4'	Soluble	Solid	DI Leach	
880-45542-12 MSD	SW-6-0-4'	Soluble	Solid	DI Leach	

Leach Batch: 84874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84874/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84874/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84874/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 84896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-1	B-11-4'	Soluble	Solid	300.0	84854
880-45542-9	B-20-4'	Soluble	Solid	300.0	84854
880-45542-10	B-21-4'	Soluble	Solid	300.0	84854
880-45542-11	Soil Pile	Soluble	Solid	300.0	84854
880-45542-12	SW-6-0-4'	Soluble	Solid	300.0	84854
880-45542-13	SW-7-0-4'	Soluble	Solid	300.0	84854

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

HPLC/IC (Continued)

Analysis Batch: 84896 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84854/1-A	Method Blank	Soluble	Solid	300.0	84854
LCS 880-84854/2-A	Lab Control Sample	Soluble	Solid	300.0	84854
LCSD 880-84854/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84854
880-45542-12 MS	SW-6-0-4'	Soluble	Solid	300.0	84854
880-45542-12 MSD	SW-6-0-4'	Soluble	Solid	300.0	84854

Leach Batch: 84943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-1	B-22	Soluble	Solid	DI Leach	
890-6879-2	B-23	Soluble	Solid	DI Leach	
890-6879-3	B-24	Soluble	Solid	DI Leach	
890-6879-4	B-25	Soluble	Solid	DI Leach	
890-6879-5	B-26	Soluble	Solid	DI Leach	
890-6879-6	B-27	Soluble	Solid	DI Leach	
890-6879-7	B-28	Soluble	Solid	DI Leach	
890-6879-8	SW-8	Soluble	Solid	DI Leach	
890-6879-9	SW-9	Soluble	Solid	DI Leach	
890-6879-10	SW-10	Soluble	Solid	DI Leach	
890-6879-11	SW-1A	Soluble	Solid	DI Leach	
890-6879-12	B-29	Soluble	Solid	DI Leach	
890-6879-13	B-30	Soluble	Solid	DI Leach	
890-6879-14	B-31	Soluble	Solid	DI Leach	
890-6879-15	B-32	Soluble	Solid	DI Leach	
890-6879-16	B-33	Soluble	Solid	DI Leach	
890-6879-17	B-34	Soluble	Solid	DI Leach	
890-6879-18	B-35	Soluble	Solid	DI Leach	
890-6879-19	B-36	Soluble	Solid	DI Leach	
890-6879-20	SW-11	Soluble	Solid	DI Leach	
MB 880-84943/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84943/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84943/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6879-1 MS	B-22	Soluble	Solid	DI Leach	
890-6879-1 MSD	B-22	Soluble	Solid	DI Leach	
890-6879-11 MS	SW-1A	Soluble	Solid	DI Leach	
890-6879-11 MSD	SW-1A	Soluble	Solid	DI Leach	

Analysis Batch: 84952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-1	B-22	Soluble	Solid	300.0	84943
890-6879-2	B-23	Soluble	Solid	300.0	84943
890-6879-3	B-24	Soluble	Solid	300.0	84943
890-6879-4	B-25	Soluble	Solid	300.0	84943
890-6879-5	B-26	Soluble	Solid	300.0	84943
890-6879-6	B-27	Soluble	Solid	300.0	84943
890-6879-7	B-28	Soluble	Solid	300.0	84943
890-6879-8	SW-8	Soluble	Solid	300.0	84943
890-6879-9	SW-9	Soluble	Solid	300.0	84943
890-6879-10	SW-10	Soluble	Solid	300.0	84943
890-6879-11	SW-1A	Soluble	Solid	300.0	84943
890-6879-12	B-29	Soluble	Solid	300.0	84943
890-6879-13	B-30	Soluble	Solid	300.0	84943

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

HPLC/IC (Continued)

Analysis Batch: 84952 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6879-14	B-31	Soluble	Solid	300.0	84943
890-6879-15	B-32	Soluble	Solid	300.0	84943
890-6879-16	B-33	Soluble	Solid	300.0	84943
890-6879-17	B-34	Soluble	Solid	300.0	84943
890-6879-18	B-35	Soluble	Solid	300.0	84943
890-6879-19	B-36	Soluble	Solid	300.0	84943
890-6879-20	SW-11	Soluble	Solid	300.0	84943
MB 880-84943/1-A	Method Blank	Soluble	Solid	300.0	84943
LCS 880-84943/2-A	Lab Control Sample	Soluble	Solid	300.0	84943
LCSD 880-84943/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84943
890-6879-1 MS	B-22	Soluble	Solid	300.0	84943
890-6879-1 MSD	B-22	Soluble	Solid	300.0	84943
890-6879-11 MS	SW-1A	Soluble	Solid	300.0	84943
890-6879-11 MSD	SW-1A	Soluble	Solid	300.0	84943

Leach Batch: 84966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-2	B-12-4'	Soluble	Solid	DI Leach	
880-45542-3	B-14-4'	Soluble	Solid	DI Leach	
880-45542-4	B-15-4'	Soluble	Solid	DI Leach	
880-45542-5	B-16-4'	Soluble	Solid	DI Leach	
880-45542-6	B-17-4'	Soluble	Solid	DI Leach	
880-45542-7	B-18-4'	Soluble	Solid	DI Leach	
880-45542-8	B-19-4'	Soluble	Solid	DI Leach	
890-6879-21	SW-12	Soluble	Solid	DI Leach	
890-6879-22	SW-13	Soluble	Solid	DI Leach	
MB 880-84966/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84966/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84966/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45542-2 MS	B-12-4'	Soluble	Solid	DI Leach	
880-45542-2 MSD	B-12-4'	Soluble	Solid	DI Leach	

Analysis Batch: 84968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45542-2	B-12-4'	Soluble	Solid	300.0	84966
880-45542-3	B-14-4'	Soluble	Solid	300.0	84966
880-45542-4	B-15-4'	Soluble	Solid	300.0	84966
880-45542-5	B-16-4'	Soluble	Solid	300.0	84966
880-45542-6	B-17-4'	Soluble	Solid	300.0	84966
880-45542-7	B-18-4'	Soluble	Solid	300.0	84966
880-45542-8	B-19-4'	Soluble	Solid	300.0	84966
890-6879-21	SW-12	Soluble	Solid	300.0	84966
890-6879-22	SW-13	Soluble	Solid	300.0	84966
MB 880-84966/1-A	Method Blank	Soluble	Solid	300.0	84966
LCS 880-84966/2-A	Lab Control Sample	Soluble	Solid	300.0	84966
LCSD 880-84966/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84966
880-45542-2 MS	B-12-4'	Soluble	Solid	300.0	84966
880-45542-2 MSD	B-12-4'	Soluble	Solid	300.0	84966

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

HPLC/IC

Leach Batch: 84989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45355-7	B-9-3'	Soluble	Solid	DI Leach	
880-45355-8	B-10-3'	Soluble	Solid	DI Leach	
MB 880-84989/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84989/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84989/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 85023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45355-7	B-9-3'	Soluble	Solid	300.0	84989
880-45355-8	B-10-3'	Soluble	Solid	300.0	84989
MB 880-84989/1-A	Method Blank	Soluble	Solid	300.0	84989
LCS 880-84989/2-A	Lab Control Sample	Soluble	Solid	300.0	84989
LCSD 880-84989/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84989

Analysis Batch: 85086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84874/1-A	Method Blank	Soluble	Solid	300.0	84874
LCS 880-84874/2-A	Lab Control Sample	Soluble	Solid	300.0	84874
LCSD 880-84874/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84874

Leach Batch: 85422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-1	B - 37 - 5'	Soluble	Solid	DI Leach	
890-6921-2	B - 38 - 5'	Soluble	Solid	DI Leach	
890-6921-3	B - 39 - 5'	Soluble	Solid	DI Leach	
890-6921-4	B - 40 - 5'	Soluble	Solid	DI Leach	
890-6921-5	B - 41 - 5'	Soluble	Solid	DI Leach	
890-6921-6	B - 42 - 5'	Soluble	Solid	DI Leach	
890-6921-7	B - 43 - 5'	Soluble	Solid	DI Leach	
890-6921-8	B - 44 - 5'	Soluble	Solid	DI Leach	
890-6921-9	SW - 14 - 0 - 5'	Soluble	Solid	DI Leach	
890-6921-10	SW - 15 - 0 - 5'	Soluble	Solid	DI Leach	
890-6921-11	B - 7A - 6'	Soluble	Solid	DI Leach	
890-6921-12	SW - 16 - 0 - 4'	Soluble	Solid	DI Leach	
890-6921-13	SW - 17 - 0 - 4'	Soluble	Solid	DI Leach	
890-6921-14	B - 45 - 4'	Soluble	Solid	DI Leach	
890-6921-15	B - 46 - 4'	Soluble	Solid	DI Leach	
890-6921-16	B - 47 - 4'	Soluble	Solid	DI Leach	
890-6921-17	B - 48 - 4'	Soluble	Solid	DI Leach	
890-6921-18	B - 49 - 4'	Soluble	Solid	DI Leach	
890-6921-19	B - 50 - 4'	Soluble	Solid	DI Leach	
890-6921-20	B - 51 - 4'	Soluble	Solid	DI Leach	
MB 880-85422/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-85422/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-85422/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6921-11 MS	B - 7A - 6'	Soluble	Solid	DI Leach	
890-6921-11 MSD	B - 7A - 6'	Soluble	Solid	DI Leach	

Analysis Batch: 85430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-1	B - 37 - 5'	Soluble	Solid	300.0	85422

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

HPLC/IC (Continued)

Analysis Batch: 85430 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-2	B - 38 - 5'	Soluble	Solid	300.0	85422
890-6921-3	B - 39 - 5'	Soluble	Solid	300.0	85422
890-6921-4	B - 40 - 5'	Soluble	Solid	300.0	85422
890-6921-5	B - 41 - 5'	Soluble	Solid	300.0	85422
890-6921-6	B - 42 - 5'	Soluble	Solid	300.0	85422
890-6921-7	B - 43 - 5'	Soluble	Solid	300.0	85422
890-6921-8	B - 44 - 5'	Soluble	Solid	300.0	85422
890-6921-9	SW - 14 - 0 - 5'	Soluble	Solid	300.0	85422
890-6921-10	SW - 15 - 0 - 5'	Soluble	Solid	300.0	85422
890-6921-11	B - 7A - 6'	Soluble	Solid	300.0	85422
890-6921-12	SW - 16 - 0 - 4'	Soluble	Solid	300.0	85422
890-6921-13	SW - 17 - 0 - 4'	Soluble	Solid	300.0	85422
890-6921-14	B - 45 - 4'	Soluble	Solid	300.0	85422
890-6921-15	B - 46 - 4'	Soluble	Solid	300.0	85422
890-6921-16	B - 47 - 4'	Soluble	Solid	300.0	85422
890-6921-17	B - 48 - 4'	Soluble	Solid	300.0	85422
890-6921-18	B - 49 - 4'	Soluble	Solid	300.0	85422
890-6921-19	B - 50 - 4'	Soluble	Solid	300.0	85422
890-6921-20	B - 51 - 4'	Soluble	Solid	300.0	85422
MB 880-85422/1-A	Method Blank	Soluble	Solid	300.0	85422
LCS 880-85422/2-A	Lab Control Sample	Soluble	Solid	300.0	85422
LCSD 880-85422/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	85422
890-6921-11 MS	B - 7A - 6'	Soluble	Solid	300.0	85422
890-6921-11 MSD	B - 7A - 6'	Soluble	Solid	300.0	85422

Leach Batch: 85436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-21	B - 52 - 4'	Soluble	Solid	DI Leach	
MB 880-85436/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-85436/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-85436/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6921-21 MS	B - 52 - 4'	Soluble	Solid	DI Leach	
890-6921-21 MSD	B - 52 - 4'	Soluble	Solid	DI Leach	

Analysis Batch: 85437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6921-21	B - 52 - 4'	Soluble	Solid	300.0	85436
MB 880-85436/1-A	Method Blank	Soluble	Solid	300.0	85436
LCS 880-85436/2-A	Lab Control Sample	Soluble	Solid	300.0	85436
LCSD 880-85436/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	85436
890-6921-21 MS	B - 52 - 4'	Soluble	Solid	300.0	85436
890-6921-21 MSD	B - 52 - 4'	Soluble	Solid	300.0	85436

Leach Batch: 85512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-1	B-53-4	Soluble	Solid	DI Leach	
890-6926-3	B-55-4	Soluble	Solid	DI Leach	
890-6926-4	B-56-4	Soluble	Solid	DI Leach	
890-6926-5	B-57-4	Soluble	Solid	DI Leach	
890-6926-6	B-58-4	Soluble	Solid	DI Leach	
890-6926-7	B-59-4	Soluble	Solid	DI Leach	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

HPLC/IC (Continued)

Leach Batch: 85512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-10	SW-20-0-4	Soluble	Solid	DI Leach	
890-6929-1	B-54-4	Soluble	Solid	DI Leach	
890-6929-2	SW-18-4	Soluble	Solid	DI Leach	
890-6929-3	SW-19-4	Soluble	Solid	DI Leach	
MB 880-85512/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-85512/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-85512/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6926-5 MS	B-57-4	Soluble	Solid	DI Leach	
890-6926-5 MSD	B-57-4	Soluble	Solid	DI Leach	

Analysis Batch: 85522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6926-1	B-53-4	Soluble	Solid	300.0	85512
890-6926-3	B-55-4	Soluble	Solid	300.0	85512
890-6926-4	B-56-4	Soluble	Solid	300.0	85512
890-6926-5	B-57-4	Soluble	Solid	300.0	85512
890-6926-6	B-58-4	Soluble	Solid	300.0	85512
890-6926-7	B-59-4	Soluble	Solid	300.0	85512
890-6926-10	SW-20-0-4	Soluble	Solid	300.0	85512
890-6929-1	B-54-4	Soluble	Solid	300.0	85512
890-6929-2	SW-18-4	Soluble	Solid	300.0	85512
890-6929-3	SW-19-4	Soluble	Solid	300.0	85512
MB 880-85512/1-A	Method Blank	Soluble	Solid	300.0	85512
LCS 880-85512/2-A	Lab Control Sample	Soluble	Solid	300.0	85512
LCSD 880-85512/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	85512
890-6926-5 MS	B-57-4	Soluble	Solid	300.0	85512
890-6926-5 MSD	B-57-4	Soluble	Solid	300.0	85512

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: SW-1-0-2.5'
Lab Sample ID: 880-45311-1
Date Collected: 06/25/24 09:10
Matrix: Solid
Date Received: 06/26/24 13:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	84312	06/27/24 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84308	06/27/24 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84386	06/27/24 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			84739	06/29/24 02:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84377	06/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/29/24 02:25	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	84355	06/27/24 11:28	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84375	06/28/24 06:59	CH	EET MID

Client Sample ID: SW-2-0-2.5'
Lab Sample ID: 880-45311-2
Date Collected: 06/25/24 09:00
Matrix: Solid
Date Received: 06/26/24 13:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	84303	06/27/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84306	06/27/24 15:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			84462	06/27/24 15:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			84739	06/29/24 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84377	06/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/29/24 02:43	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	84389	06/27/24 15:32	SMC	EET MID
Soluble	Analysis	300.0		1			84505	06/28/24 21:48	SMC	EET MID

Client Sample ID: B-1-2.5'
Lab Sample ID: 880-45311-3
Date Collected: 06/25/24 11:00
Matrix: Solid
Date Received: 06/26/24 13:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	84303	06/27/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84306	06/27/24 15:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			84462	06/27/24 15:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			84739	06/29/24 03:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84377	06/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/29/24 03:50	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	84389	06/27/24 15:32	SMC	EET MID
Soluble	Analysis	300.0		1			84505	06/28/24 22:08	SMC	EET MID

Client Sample ID: B-2-2.5'
Lab Sample ID: 880-45311-4
Date Collected: 06/25/24 11:30
Matrix: Solid
Date Received: 06/26/24 13:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	84303	06/27/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84306	06/27/24 16:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			84462	06/27/24 16:04	AJ	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-2-2.5'
Date Collected: 06/25/24 11:30
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-4
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			84739	06/29/24 04:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84377	06/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/29/24 04:10	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	84389	06/27/24 15:32	SMC	EET MID
Soluble	Analysis	300.0		1			84505	06/28/24 22:15	SMC	EET MID

Client Sample ID: B-3-2.5'
Date Collected: 06/25/24 13:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-5
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	5030B			4.96 g	5 mL	84312	06/27/24 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84308	06/27/24 15:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84462	06/27/24 15:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			84739	06/29/24 04:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84377	06/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/29/24 04:31	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	84389	06/27/24 15:32	SMC	EET MID
Soluble	Analysis	300.0		1			84505	06/28/24 22:21	SMC	EET MID

Client Sample ID: B-4-2.5'
Date Collected: 06/25/24 13:30
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-6
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	5030B			4.95 g	5 mL	84312	06/27/24 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84308	06/27/24 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84462	06/27/24 17:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			84739	06/29/24 04:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84377	06/27/24 14:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/29/24 04:52	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	84389	06/27/24 15:32	SMC	EET MID
Soluble	Analysis	300.0		1			84505	06/28/24 22:28	SMC	EET MID

Client Sample ID: B-5-2.5'
Date Collected: 06/25/24 14:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	84312	06/27/24 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84308	06/27/24 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84462	06/27/24 17:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			84739	06/28/24 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84443	06/28/24 08:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84442	06/28/24 22:35	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-5-2.5'
Date Collected: 06/25/24 14:00
Date Received: 06/26/24 13:55

Lab Sample ID: 880-45311-7
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			5.01 g	50 mL	84389	06/27/24 15:32	SMC	EET MID
Soluble	Analysis	300.0		1			84505	06/28/24 22:48	SMC	EET MID

Client Sample ID: SW-3-0-6'
Date Collected: 06/26/24 09:55
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-1
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	5030B			5.02 g	5 mL	84412	06/27/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84451	06/28/24 11:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84575	06/28/24 11:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			84740	06/28/24 22:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	84443	06/28/24 08:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84442	06/28/24 22:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	84392	06/27/24 15:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84413	06/28/24 01:40	CH	EET MID

Client Sample ID: SW-4-0-6'
Date Collected: 06/26/24 10:10
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-2
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	5030B			4.98 g	5 mL	84412	06/27/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84451	06/28/24 12:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84575	06/28/24 12:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			84740	06/28/24 23:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84443	06/28/24 08:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84442	06/28/24 23:14	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	84392	06/27/24 15:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84413	06/28/24 01:57	CH	EET MID

Client Sample ID: SW-5-0-6'
Date Collected: 06/26/24 10:20
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-3
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	5030B			4.95 g	5 mL	84412	06/27/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84451	06/28/24 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84575	06/28/24 12:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			84740	06/28/24 23:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84443	06/28/24 08:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84442	06/28/24 23:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84392	06/27/24 15:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84413	06/28/24 02:03	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B-6-6'
Lab Sample ID: 880-45355-4
Date Collected: 06/26/24 14:20
Matrix: Solid
Date Received: 06/27/24 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	84412	06/27/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84451	06/28/24 12:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84575	06/28/24 12:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			84740	06/28/24 23:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84443	06/28/24 08:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84442	06/28/24 23:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	84392	06/27/24 15:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84413	06/28/24 02:21	CH	EET MID

Client Sample ID: B-7-6'
Lab Sample ID: 880-45355-5
Date Collected: 06/26/24 10:40
Matrix: Solid
Date Received: 06/27/24 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	84412	06/27/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84451	06/28/24 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84575	06/28/24 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			84740	06/29/24 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84443	06/28/24 08:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84442	06/29/24 00:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84392	06/27/24 15:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84413	06/28/24 02:27	CH	EET MID

Client Sample ID: B-8-6'
Lab Sample ID: 880-45355-6
Date Collected: 06/26/24 14:30
Matrix: Solid
Date Received: 06/27/24 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	84412	06/27/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84451	06/28/24 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84575	06/28/24 13:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			84740	06/29/24 00:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84443	06/28/24 08:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84442	06/29/24 00:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84392	06/27/24 15:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84413	06/28/24 02:33	CH	EET MID

Client Sample ID: B-9-3'
Lab Sample ID: 880-45355-7
Date Collected: 06/26/24 15:00
Matrix: Solid
Date Received: 06/27/24 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	84412	06/27/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84451	06/28/24 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84575	06/28/24 13:49	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-9-3'
Date Collected: 06/26/24 15:00
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			84740	06/29/24 01:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84443	06/28/24 08:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84442	06/29/24 01:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	84989	07/03/24 16:33	SA	EET MID
Soluble	Analysis	300.0		1			85023	07/05/24 08:44	CH	EET MID

Client Sample ID: B-10-3'
Date Collected: 06/26/24 15:10
Date Received: 06/27/24 14:37

Lab Sample ID: 880-45355-8
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	5030B			5.04 g	5 mL	84412	06/27/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84451	06/28/24 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84575	06/28/24 14:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			84740	06/29/24 01:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84443	06/28/24 08:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84442	06/29/24 01:28	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	84989	07/03/24 16:33	SA	EET MID
Soluble	Analysis	300.0		1			85023	07/05/24 08:51	CH	EET MID

Client Sample ID: B-11-4'
Date Collected: 07/01/24 10:50
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-1
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	5030B			5.04 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/02/24 20:40	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/02/24 20:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 10:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 10:08	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	84854	07/02/24 13:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84896	07/03/24 12:09	CH	EET MID

Client Sample ID: B-12-4'
Date Collected: 07/01/24 10:00
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-2
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	5030B			4.96 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/02/24 21:07	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/02/24 21:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 11:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 11:09	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-12-4'
Date Collected: 07/01/24 10:00
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	84966	07/03/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84968	07/03/24 15:30	CH	EET MID

Client Sample ID: B-14-4'
Date Collected: 07/01/24 10:10
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-3
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	5030B			5.01 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/02/24 21:34	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/02/24 21:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 11:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 11:30	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	84966	07/03/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84968	07/03/24 15:46	CH	EET MID

Client Sample ID: B-15-4'
Date Collected: 07/01/24 11:00
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-4
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	5030B			5.04 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/02/24 22:00	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/02/24 22:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 11:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 11:51	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	84966	07/03/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84968	07/03/24 15:51	CH	EET MID

Client Sample ID: B-16-4'
Date Collected: 07/01/24 11:10
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-5
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	5030B			4.96 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/02/24 22:27	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/02/24 22:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 12:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 12:11	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84966	07/03/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84968	07/03/24 15:57	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B-17-4'
Lab Sample ID: 880-45542-6
Date Collected: 07/01/24 11:20
Matrix: Solid
Date Received: 07/02/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/02/24 22:54	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/02/24 22:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 12:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 12:32	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84966	07/03/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84968	07/03/24 16:02	CH	EET MID

Client Sample ID: B-18-4'
Lab Sample ID: 880-45542-7
Date Collected: 07/01/24 11:30
Matrix: Solid
Date Received: 07/02/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/02/24 23:20	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/02/24 23:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 12:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 12:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	84966	07/03/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84968	07/03/24 16:17	CH	EET MID

Client Sample ID: B-19-4'
Lab Sample ID: 880-45542-8
Date Collected: 07/01/24 10:20
Matrix: Solid
Date Received: 07/02/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/02/24 23:47	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/02/24 23:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 13:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 13:13	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84966	07/03/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84968	07/03/24 16:23	CH	EET MID

Client Sample ID: B-20-4'
Lab Sample ID: 880-45542-9
Date Collected: 07/01/24 10:30
Matrix: Solid
Date Received: 07/02/24 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/03/24 00:14	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/03/24 00:14	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-20-4'
Date Collected: 07/01/24 10:30
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			84999	07/03/24 13:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 13:34	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84854	07/02/24 13:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84896	07/03/24 12:14	CH	EET MID

Client Sample ID: B-21-4'
Date Collected: 07/01/24 10:40
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-10
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	5030B			5.00 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/03/24 00:40	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/03/24 00:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 13:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 13:54	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	84854	07/02/24 13:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84896	07/03/24 12:20	CH	EET MID

Client Sample ID: Soil Pile
Date Collected: 07/01/24 12:00
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	84876	07/02/24 15:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84805	07/03/24 02:27	EL	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/03/24 02:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 14:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	84854	07/02/24 13:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84896	07/03/24 12:25	CH	EET MID

Client Sample ID: SW-6-0-4'
Date Collected: 07/01/24 12:20
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	84852	07/02/24 13:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84804	07/03/24 05:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/03/24 05:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 14:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 14:56	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: SW-6-0-4'
Date Collected: 07/01/24 12:20
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-12
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			5.03 g	50 mL	84854	07/02/24 13:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84896	07/03/24 12:30	CH	EET MID

Client Sample ID: SW-7-0-4'
Date Collected: 07/01/24 12:30
Date Received: 07/02/24 11:50

Lab Sample ID: 880-45542-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	84852	07/02/24 13:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84804	07/03/24 05:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			84950	07/03/24 05:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			84999	07/03/24 15:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84901	07/02/24 19:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84928	07/03/24 15:17	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	84854	07/02/24 13:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84896	07/03/24 12:46	CH	EET MID

Client Sample ID: B - 13 - 3'
Date Collected: 06/27/24 11:00
Date Received: 06/27/24 16:51

Lab Sample ID: 890-6856-1
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	5030B			4.96 g	5 mL	84633	07/01/24 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84659	07/01/24 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84770	07/01/24 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			84855	07/01/24 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84594	06/28/24 16:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84647	07/01/24 12:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	84580	07/01/24 07:50	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84649	07/01/24 10:55	CH	EET MID

Client Sample ID: B-22
Date Collected: 07/02/24 09:00
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 12:27	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 12:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/05/24 21:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/05/24 21:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 12:08	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B-23
Lab Sample ID: 890-6879-2
Date Collected: 07/02/24 09:10
Matrix: Solid
Date Received: 07/02/24 16:37

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	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 12:48	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/05/24 22:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/05/24 22:37	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 12:30	CH	EET MID

Client Sample ID: B-24
Lab Sample ID: 890-6879-3
Date Collected: 07/02/24 09:20
Matrix: Solid
Date Received: 07/02/24 16:37

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	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 13:08	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 13:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/05/24 22:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/05/24 22:58	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 12:37	CH	EET MID

Client Sample ID: B-25
Lab Sample ID: 890-6879-4
Date Collected: 07/02/24 09:40
Matrix: Solid
Date Received: 07/02/24 16:37

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	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 13:28	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 13:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/05/24 23:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/05/24 23:18	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 12:45	CH	EET MID

Client Sample ID: B-26
Lab Sample ID: 890-6879-5
Date Collected: 07/02/24 09:50
Matrix: Solid
Date Received: 07/02/24 16:37

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	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 13:49	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 13:49	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B-26
Lab Sample ID: 890-6879-5
Date Collected: 07/02/24 09:50
Matrix: Solid
Date Received: 07/02/24 16:37

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			85170	07/05/24 23:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/05/24 23:39	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 12:52	CH	EET MID

Client Sample ID: B-27
Lab Sample ID: 890-6879-6
Date Collected: 07/02/24 10:00
Matrix: Solid
Date Received: 07/02/24 16:37

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	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 14:09	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 14:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/05/24 23:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/05/24 23:59	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 13:14	CH	EET MID

Client Sample ID: B-28
Lab Sample ID: 890-6879-7
Date Collected: 07/02/24 10:10
Matrix: Solid
Date Received: 07/02/24 16:37

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	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 14:30	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 00:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 00:19	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 13:21	CH	EET MID

Client Sample ID: SW-8
Lab Sample ID: 890-6879-8
Date Collected: 07/02/24 10:20
Matrix: Solid
Date Received: 07/02/24 16:37

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	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 14:50	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 14:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 00:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 00:39	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: SW-8
Date Collected: 07/02/24 10:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-8
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	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 13:28	CH	EET MID

Client Sample ID: SW-9
Date Collected: 07/02/24 10:30
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-9
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	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 15:10	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 15:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 01:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 01:01	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 13:35	CH	EET MID

Client Sample ID: SW-10
Date Collected: 07/02/24 12:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-10
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			4.95 g	5 mL	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 15:31	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 15:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 01:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 01:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 13:43	CH	EET MID

Client Sample ID: SW-1A
Date Collected: 07/02/24 12:30
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	85024	07/05/24 08:53	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85014	07/05/24 16:54	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 16:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 02:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 02:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 13:50	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B-29
Lab Sample ID: 890-6879-12
Date Collected: 07/02/24 12:40
Matrix: Solid
Date Received: 07/02/24 16:37

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	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 12:32	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 12:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 02:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 02:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 14:12	CH	EET MID

Client Sample ID: B-30
Lab Sample ID: 890-6879-13
Date Collected: 07/02/24 12:50
Matrix: Solid
Date Received: 07/02/24 16:37

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	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 12:52	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 02:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 14:19	CH	EET MID

Client Sample ID: B-31
Lab Sample ID: 890-6879-14
Date Collected: 07/02/24 13:00
Matrix: Solid
Date Received: 07/02/24 16:37

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	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 13:13	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 13:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 03:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 03:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 14:41	CH	EET MID

Client Sample ID: B-32
Lab Sample ID: 890-6879-15
Date Collected: 07/02/24 13:10
Matrix: Solid
Date Received: 07/02/24 16:37

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	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 13:33	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 13:33	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Client Sample ID: B-32
Date Collected: 07/02/24 13:10
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			85170	07/06/24 03:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 03:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 14:48	CH	EET MID

Client Sample ID: B-33
Date Collected: 07/02/24 13:20
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 13:54	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 13:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 07:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 07:03	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 14:55	CH	EET MID

Client Sample ID: B-34
Date Collected: 07/02/24 13:30
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 14:14	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 14:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 04:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 04:50	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 15:02	CH	EET MID

Client Sample ID: B-35
Date Collected: 07/02/24 13:40
Date Received: 07/02/24 16:37

Lab Sample ID: 890-6879-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 14:34	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 14:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 05:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 05:10	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B-35
Lab Sample ID: 890-6879-18
Date Collected: 07/02/24 13:40
Matrix: Solid
Date Received: 07/02/24 16:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 15:10	CH	EET MID

Client Sample ID: B-36
Lab Sample ID: 890-6879-19
Date Collected: 07/02/24 13:50
Matrix: Solid
Date Received: 07/02/24 16:37

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	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 14:55	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 14:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 05:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 05:30	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 15:17	CH	EET MID

Client Sample ID: SW-11
Lab Sample ID: 890-6879-20
Date Collected: 07/02/24 14:00
Matrix: Solid
Date Received: 07/02/24 16:37

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	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 15:15	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 15:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 05:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85020	07/05/24 08:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85003	07/06/24 05:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	84943	07/03/24 08:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84952	07/03/24 15:24	CH	EET MID

Client Sample ID: SW-12
Lab Sample ID: 890-6879-21
Date Collected: 07/02/24 14:10
Matrix: Solid
Date Received: 07/02/24 16:37

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	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 15:36	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 15:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 10:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	85021	07/05/24 08:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85095	07/06/24 10:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84966	07/03/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84968	07/03/24 16:28	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: SW-13
Lab Sample ID: 890-6879-22
Date Collected: 07/02/24 14:20
Matrix: Solid
Date Received: 07/02/24 16:37

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	85029	07/05/24 08:56	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85016	07/05/24 17:09	EL	EET MID
Total/NA	Analysis	Total BTEX		1			85178	07/05/24 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			85170	07/06/24 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	85021	07/05/24 08:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85095	07/06/24 11:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	84966	07/03/24 11:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84968	07/03/24 16:33	CH	EET MID

Client Sample ID: B - 37 - 5'
Lab Sample ID: 890-6921-1
Date Collected: 07/09/24 09:00
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85417	07/11/24 08:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 11:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 11:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/11/24 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 12:20	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 11:02	CH	EET MID

Client Sample ID: B - 38 - 5'
Lab Sample ID: 890-6921-2
Date Collected: 07/09/24 09:10
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	85417	07/11/24 08:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 11:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 11:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/11/24 13:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 13:13	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 11:28	CH	EET MID

Client Sample ID: B - 39 - 5'
Lab Sample ID: 890-6921-3
Date Collected: 07/09/24 09:20
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	85417	07/11/24 08:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 12:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 12:18	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B - 39 - 5'
Lab Sample ID: 890-6921-3
Date Collected: 07/09/24 09:20
Matrix: Solid
Date Received: 07/09/24 16:53

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			85559	07/11/24 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 13:30	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 11:34	CH	EET MID

Client Sample ID: B - 40 - 5'
Lab Sample ID: 890-6921-4
Date Collected: 07/09/24 09:30
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85417	07/11/24 08:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 12:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/11/24 13:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 13:48	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 11:39	CH	EET MID

Client Sample ID: B - 41 - 5'
Lab Sample ID: 890-6921-5
Date Collected: 07/09/24 09:40
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	85417	07/11/24 08:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 12:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 12:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/11/24 14:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 14:05	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 11:44	CH	EET MID

Client Sample ID: B - 42 - 5'
Lab Sample ID: 890-6921-6
Date Collected: 07/09/24 09:50
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85417	07/11/24 08:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 13:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 13:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/11/24 14:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 14:23	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B - 42 - 5'
Lab Sample ID: 890-6921-6
Date Collected: 07/09/24 09:50
Matrix: Solid
Date Received: 07/09/24 16:53

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	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 12:00	CH	EET MID

Client Sample ID: B - 43 - 5'
Lab Sample ID: 890-6921-7
Date Collected: 07/09/24 10:00
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	85417	07/11/24 08:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 13:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/11/24 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 14:40	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 12:05	CH	EET MID

Client Sample ID: B - 44 - 5'
Lab Sample ID: 890-6921-8
Date Collected: 07/09/24 10:10
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	85417	07/11/24 08:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85411	07/11/24 14:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 14:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/11/24 14:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 14:57	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 12:10	CH	EET MID

Client Sample ID: SW - 14 - 0 - 5'
Lab Sample ID: 890-6921-9
Date Collected: 07/09/24 10:20
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85419	07/11/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85413	07/11/24 10:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 10:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/11/24 15:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 15:14	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 12:15	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: SW - 15 - 0 - 5'
Lab Sample ID: 890-6921-10
Date Collected: 07/09/24 10:30
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	85419	07/11/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85413	07/11/24 11:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 11:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/11/24 15:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	85376	07/10/24 14:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85442	07/11/24 15:31	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 12:21	CH	EET MID

Client Sample ID: B - 7A - 6'
Lab Sample ID: 890-6921-11
Date Collected: 07/08/24 11:30
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	85419	07/11/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85413	07/11/24 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 11:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 21:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 21:40	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 12:26	CH	EET MID

Client Sample ID: SW - 16 - 0 - 4'
Lab Sample ID: 890-6921-12
Date Collected: 07/09/24 10:40
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85419	07/11/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85413	07/11/24 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 11:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 21:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 21:55	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 12:41	CH	EET MID

Client Sample ID: SW - 17 - 0 - 4'
Lab Sample ID: 890-6921-13
Date Collected: 07/09/24 10:50
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	85419	07/11/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85413	07/11/24 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 12:16	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: SW - 17 - 0 - 4'
Lab Sample ID: 890-6921-13
Date Collected: 07/09/24 10:50
Matrix: Solid
Date Received: 07/09/24 16:53

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			85559	07/12/24 22:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 22:10	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 12:47	CH	EET MID

Client Sample ID: B - 45 - 4'
Lab Sample ID: 890-6921-14
Date Collected: 07/09/24 13:30
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85419	07/11/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85413	07/11/24 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 22:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 22:25	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 13:02	CH	EET MID

Client Sample ID: B - 46 - 4'
Lab Sample ID: 890-6921-15
Date Collected: 07/09/24 15:00
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85421	07/11/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85412	07/11/24 11:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 11:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 22:41	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 13:08	CH	EET MID

Client Sample ID: B - 47 - 4'
Lab Sample ID: 890-6921-16
Date Collected: 07/09/24 15:10
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	85421	07/11/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85412	07/11/24 11:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 11:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 22:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 22:56	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B - 47 - 4'
Lab Sample ID: 890-6921-16
Date Collected: 07/09/24 15:10
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 13:13	CH	EET MID

Client Sample ID: B - 48 - 4'
Lab Sample ID: 890-6921-17
Date Collected: 07/09/24 13:40
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	85421	07/11/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85412	07/11/24 11:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 11:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 23:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 23:11	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 13:18	CH	EET MID

Client Sample ID: B - 49 - 4'
Lab Sample ID: 890-6921-18
Date Collected: 07/09/24 15:20
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85421	07/11/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85412	07/11/24 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 12:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 23:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 23:26	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 13:23	CH	EET MID

Client Sample ID: B - 50 - 4'
Lab Sample ID: 890-6921-19
Date Collected: 07/09/24 13:50
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	85421	07/11/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85412	07/11/24 12:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 12:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 23:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 23:41	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 13:28	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B - 51 - 4'
Lab Sample ID: 890-6921-20
Date Collected: 07/09/24 14:00
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85421	07/11/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85412	07/11/24 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 23:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 23:56	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	85422	07/11/24 08:00	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85430	07/11/24 13:34	CH	EET MID

Client Sample ID: B - 52 - 4'
Lab Sample ID: 890-6921-21
Date Collected: 07/09/24 14:10
Matrix: Solid
Date Received: 07/09/24 16:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	85421	07/11/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85412	07/11/24 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85492	07/11/24 13:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			85559	07/12/24 19:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85557	07/12/24 10:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85608	07/12/24 19:50	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85436	07/11/24 10:56	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85437	07/11/24 13:52	CH	EET MID

Client Sample ID: B-53-4
Lab Sample ID: 890-6926-1
Date Collected: 07/10/24 15:00
Matrix: Solid
Date Received: 07/11/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 11:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85610	07/12/24 11:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			85753	07/12/24 15:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 15:43	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 10:13	CH	EET MID

Client Sample ID: B-55-4
Lab Sample ID: 890-6926-3
Date Collected: 07/10/24 15:20
Matrix: Solid
Date Received: 07/11/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85610	07/12/24 12:14	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B-55-4
Lab Sample ID: 890-6926-3
Date Collected: 07/10/24 15:20
Matrix: Solid
Date Received: 07/11/24 08:19

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			85753	07/12/24 16:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 16:02	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 10:18	CH	EET MID

Client Sample ID: B-56-4
Lab Sample ID: 890-6926-4
Date Collected: 07/10/24 15:30
Matrix: Solid
Date Received: 07/11/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 12:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85610	07/12/24 12:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			85753	07/12/24 14:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	85572	07/12/24 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85584	07/12/24 14:51	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 10:23	CH	EET MID

Client Sample ID: B-57-4
Lab Sample ID: 890-6926-5
Date Collected: 07/10/24 15:40
Matrix: Solid
Date Received: 07/11/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85610	07/12/24 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			85753	07/12/24 15:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	85572	07/12/24 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85584	07/12/24 15:43	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 10:28	CH	EET MID

Client Sample ID: B-58-4
Lab Sample ID: 890-6926-6
Date Collected: 07/10/24 15:50
Matrix: Solid
Date Received: 07/11/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 13:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85610	07/12/24 13:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			85753	07/12/24 16:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10 g	10 mL	85572	07/12/24 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85584	07/12/24 16:02	TKC	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: B-58-4
Lab Sample ID: 890-6926-6
Date Collected: 07/10/24 15:50
Matrix: Solid
Date Received: 07/11/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 10:44	CH	EET MID

Client Sample ID: B-59-4
Lab Sample ID: 890-6926-7
Date Collected: 07/10/24 16:00
Matrix: Solid
Date Received: 07/11/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85610	07/12/24 13:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			85753	07/12/24 16:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	85572	07/12/24 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85584	07/12/24 16:20	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 10:49	CH	EET MID

Client Sample ID: SW-20-0-4
Lab Sample ID: 890-6926-10
Date Collected: 07/10/24 16:30
Matrix: Solid
Date Received: 07/11/24 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 13:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85610	07/12/24 13:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			85753	07/12/24 16:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	85572	07/12/24 11:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85584	07/12/24 16:37	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 11:05	CH	EET MID

Client Sample ID: B-54-4
Lab Sample ID: 890-6929-1
Date Collected: 07/11/24 09:30
Matrix: Solid
Date Received: 07/11/24 14:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85611	07/12/24 14:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			85754	07/12/24 16:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 16:20	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 11:10	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 890-6879-1
Project/Site: asio otus fed 003h

Client Sample ID: SW-18-4
Date Collected: 07/11/24 09:40
Date Received: 07/11/24 14:47

Lab Sample ID: 890-6929-2
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	5030B			5.04 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85611	07/12/24 14:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			85754	07/12/24 16:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 16:37	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 11:15	CH	EET MID

Client Sample ID: SW-19-4
Date Collected: 07/11/24 09:50
Date Received: 07/11/24 14:47

Lab Sample ID: 890-6929-3
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	5030B			4.95 g	5 mL	85513	07/12/24 08:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85517	07/12/24 14:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85611	07/12/24 14:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			85754	07/12/24 16:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 16:54	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	85512	07/12/24 08:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85522	07/12/24 11:21	CH	EET MID

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45311-1	SW-1-0-2.5'	Solid	06/25/24 09:10	06/26/24 13:55
880-45311-2	SW-2-0-2.5'	Solid	06/25/24 09:00	06/26/24 13:55
880-45311-3	B-1-2.5'	Solid	06/25/24 11:00	06/26/24 13:55
880-45311-4	B-2-2.5'	Solid	06/25/24 11:30	06/26/24 13:55
880-45311-5	B-3-2.5'	Solid	06/25/24 13:00	06/26/24 13:55
880-45311-6	B-4-2.5'	Solid	06/25/24 13:30	06/26/24 13:55
880-45311-7	B-5-2.5'	Solid	06/25/24 14:00	06/26/24 13:55
880-45355-1	SW-3-0-6'	Solid	06/26/24 09:55	06/27/24 14:37
880-45355-2	SW-4-0-6'	Solid	06/26/24 10:10	06/27/24 14:37
880-45355-3	SW-5-0-6'	Solid	06/26/24 10:20	06/27/24 14:37
880-45355-4	B-6-6'	Solid	06/26/24 14:20	06/27/24 14:37
880-45355-5	B-7-6'	Solid	06/26/24 10:40	06/27/24 14:37
880-45355-6	B-8-6'	Solid	06/26/24 14:30	06/27/24 14:37
880-45355-7	B-9-3'	Solid	06/26/24 15:00	06/27/24 14:37
880-45355-8	B-10-3'	Solid	06/26/24 15:10	06/27/24 14:37
880-45542-1	B-11-4'	Solid	07/01/24 10:50	07/02/24 11:50
880-45542-2	B-12-4'	Solid	07/01/24 10:00	07/02/24 11:50
880-45542-3	B-14-4'	Solid	07/01/24 10:10	07/02/24 11:50
880-45542-4	B-15-4'	Solid	07/01/24 11:00	07/02/24 11:50
880-45542-5	B-16-4'	Solid	07/01/24 11:10	07/02/24 11:50
880-45542-6	B-17-4'	Solid	07/01/24 11:20	07/02/24 11:50
880-45542-7	B-18-4'	Solid	07/01/24 11:30	07/02/24 11:50
880-45542-8	B-19-4'	Solid	07/01/24 10:20	07/02/24 11:50
880-45542-9	B-20-4'	Solid	07/01/24 10:30	07/02/24 11:50
880-45542-10	B-21-4'	Solid	07/01/24 10:40	07/02/24 11:50
880-45542-11	Soil Pile	Solid	07/01/24 12:00	07/02/24 11:50
880-45542-12	SW-6-0-4'	Solid	07/01/24 12:20	07/02/24 11:50
880-45542-13	SW-7-0-4'	Solid	07/01/24 12:30	07/02/24 11:50
890-6856-1	B - 13 - 3'	Solid	06/27/24 11:00	06/27/24 16:51
890-6879-1	B-22	Solid	07/02/24 09:00	07/02/24 16:37
890-6879-2	B-23	Solid	07/02/24 09:10	07/02/24 16:37
890-6879-3	B-24	Solid	07/02/24 09:20	07/02/24 16:37
890-6879-4	B-25	Solid	07/02/24 09:40	07/02/24 16:37
890-6879-5	B-26	Solid	07/02/24 09:50	07/02/24 16:37
890-6879-6	B-27	Solid	07/02/24 10:00	07/02/24 16:37
890-6879-7	B-28	Solid	07/02/24 10:10	07/02/24 16:37
890-6879-8	SW-8	Solid	07/02/24 10:20	07/02/24 16:37
890-6879-9	SW-9	Solid	07/02/24 10:30	07/02/24 16:37
890-6879-10	SW-10	Solid	07/02/24 12:20	07/02/24 16:37
890-6879-11	SW-1A	Solid	07/02/24 12:30	07/02/24 16:37
890-6879-12	B-29	Solid	07/02/24 12:40	07/02/24 16:37
890-6879-13	B-30	Solid	07/02/24 12:50	07/02/24 16:37
890-6879-14	B-31	Solid	07/02/24 13:00	07/02/24 16:37
890-6879-15	B-32	Solid	07/02/24 13:10	07/02/24 16:37
890-6879-16	B-33	Solid	07/02/24 13:20	07/02/24 16:37
890-6879-17	B-34	Solid	07/02/24 13:30	07/02/24 16:37
890-6879-18	B-35	Solid	07/02/24 13:40	07/02/24 16:37
890-6879-19	B-36	Solid	07/02/24 13:50	07/02/24 16:37
890-6879-20	SW-11	Solid	07/02/24 14:00	07/02/24 16:37
890-6879-21	SW-12	Solid	07/02/24 14:10	07/02/24 16:37
890-6879-22	SW-13	Solid	07/02/24 14:20	07/02/24 16:37
890-6921-1	B - 37 - 5'	Solid	07/09/24 09:00	07/09/24 16:53
890-6921-2	B - 38 - 5'	Solid	07/09/24 09:10	07/09/24 16:53
890-6921-3	B - 39 - 5'	Solid	07/09/24 09:20	07/09/24 16:53

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: asio otus fed 003h

Job ID: 890-6879-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6921-4	B - 40 - 5'	Solid	07/09/24 09:30	07/09/24 16:53
890-6921-5	B - 41 - 5'	Solid	07/09/24 09:40	07/09/24 16:53
890-6921-6	B - 42 - 5'	Solid	07/09/24 09:50	07/09/24 16:53
890-6921-7	B - 43 - 5'	Solid	07/09/24 10:00	07/09/24 16:53
890-6921-8	B - 44 - 5'	Solid	07/09/24 10:10	07/09/24 16:53
890-6921-9	SW - 14 - 0 - 5'	Solid	07/09/24 10:20	07/09/24 16:53
890-6921-10	SW - 15 - 0 - 5'	Solid	07/09/24 10:30	07/09/24 16:53
890-6921-11	B - 7A - 6'	Solid	07/08/24 11:30	07/09/24 16:53
890-6921-12	SW - 16 - 0 - 4'	Solid	07/09/24 10:40	07/09/24 16:53
890-6921-13	SW - 17 - 0 - 4'	Solid	07/09/24 10:50	07/09/24 16:53
890-6921-14	B - 45 - 4'	Solid	07/09/24 13:30	07/09/24 16:53
890-6921-15	B - 46 - 4'	Solid	07/09/24 15:00	07/09/24 16:53
890-6921-16	B - 47 - 4'	Solid	07/09/24 15:10	07/09/24 16:53
890-6921-17	B - 48 - 4'	Solid	07/09/24 13:40	07/09/24 16:53
890-6921-18	B - 49 - 4'	Solid	07/09/24 15:20	07/09/24 16:53
890-6921-19	B - 50 - 4'	Solid	07/09/24 13:50	07/09/24 16:53
890-6921-20	B - 51 - 4'	Solid	07/09/24 14:00	07/09/24 16:53
890-6921-21	B - 52 - 4'	Solid	07/09/24 14:10	07/09/24 16:53
890-6926-1	B-53-4	Solid	07/10/24 15:00	07/11/24 08:19
890-6926-3	B-55-4	Solid	07/10/24 15:20	07/11/24 08:19
890-6926-4	B-56-4	Solid	07/10/24 15:30	07/11/24 08:19
890-6926-5	B-57-4	Solid	07/10/24 15:40	07/11/24 08:19
890-6926-6	B-58-4	Solid	07/10/24 15:50	07/11/24 08:19
890-6926-7	B-59-4	Solid	07/10/24 16:00	07/11/24 08:19
890-6926-10	SW-20-0-4	Solid	07/10/24 16:30	07/11/24 08:19
890-6929-1	B-54-4	Solid	07/11/24 09:30	07/11/24 14:47
890-6929-2	SW-18-4	Solid	07/11/24 09:40	07/11/24 14:47
890-6929-3	SW-19-4	Solid	07/11/24 09:50	07/11/24 14:47

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath.Boyd@Arcadis.com	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 890-3749-110.2
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 2 of 8 1 of 2
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 24 hr. CL, Standard All ELSE			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: 30226789			
Email: Justin.Nixon@arcadis.com	WO #:			
Project Name: Asio Otus Fed 003H	Project #: 89000201			
Site: Eddy County, NM	SSOW#:			

Analysis Requested

890-6879 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number	Special Instructions/Note:
			Preservation Code:				N		
B-22-2'	7/2/24	900	C	Solid			X		
B-23-2'		910		Solid			X		
B-24-2'		920		Solid			X		
B-25-2'		930		Solid			X		
B-26-2'		940		Solid			X		
B-27-2'		950		Solid			X		
B-28-2'		1000		Solid			X		
SW-8-0-2'		1010		Solid			X		
SW-9-0-2'		1020		Solid			X		
SW-10-0-2'		1030		Solid			X		
SW-1A-0-2'	"	1220	"	Solid			X		

Preservation Codes:
N - None

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	7/2/24 1645	Arcadis			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Received by OCD: 9/5/2024 9:00:34 AM
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8/21/2024 (Rev. 1)
Released to Imaging: 9/23/2024 11:17:35 AM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath.Boyd@Arcadis.com	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 890-3749-110.3
Client Contact: Justin Nixon	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: (23) Page ~~3 of 8~~ 2 of 2
Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 24hr. CI, Standard all Else			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-296-9547(Tel)	PO #: 30226789			
Email: Justin.Nixon@arcadis.com	WO #:			
Project Name: Asio Otus Fed 003H	Project #: 89000201			
Site: Eddy County, NM	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-29-3'	7/2/24	1230	C	Solid			X		
B-30-3'		1240		Solid			X		
B-31-3'		1250		Solid			X		
B-32-3'		1300		Solid			X		
B-33-3'		1310		Solid			X		
B-34-3'		1320		Solid			X		
B-35-3'		1330		Solid			X		
B-36-3'		1340		Solid			X		
SW-11-Ø-3'		1350		Solid			X		
SW-12-Ø-3'		1400		Solid			X		
SW-13-Ø-3'	X	1410	X	Solid			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7/2/24 1645	Arcadis			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

8/21/2024 (Rev. 1)
Page 177 of 179
Received by OCD: 9/5/2024 9:00:34 AM
Released to Imaging: 9/23/2024 11:17:35 AM

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 890-6879-1

Login Number: 6879 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Lopez, Abraham

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 890-6879-1

Login Number: 6879
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 07/03/24 08:05 AM

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

Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620
www.arcadis.com

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 380832

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 380832
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2320851728**
Incident Name	**NAPP2320851728 ASIO OTUS FEDERAL 003H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Facility	**[fAPP2202647776] ASIO OTUS FED #3H RT BTTY**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ASIO OTUS FEDERAL 003H
Date Release Discovered	07/16/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 14 BBL | Recovered: 0 BBL | Lost: 14 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 380832
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 02/19/2024

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 380832
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
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
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully 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)	499
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	68.2
GRO+DRO (EPA SW-846 Method 8015M)	68.2
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
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	06/25/2024
On what date will (or did) the final sampling or liner inspection occur	06/25/2024
On what date will (or was) the remediation complete(d)	07/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	11800
What is the estimated volume (in cubic yards) that will be reclaimed	2280
What is the estimated surface area (in square feet) that will be remediated	11800
What is the estimated volume (in cubic yards) that will be remediated	2280
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.	

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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 380832
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]
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	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 09/05/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 380832
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 380832
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**357088**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**06/26/2024**
What was the (estimated) number of samples that were to be gathered	**75**
What was the sampling surface area in square feet	**11515**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	11800
What was the total volume (cubic yards) remediated	2280
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	11800
What was the total volume (in cubic yards) reclaimed	2280
Summarize any additional remediation activities not included by answers (above)	na

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 09/05/2024

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 380832
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	11800
What was the total volume of replacement material (in cubic yards) for this site	2280
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	08/05/2024
Summarize any additional reclamation activities not included by answers (above)	The site was backfilled with topsoil consistent with the current soil type in the area, then re-seeded.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 380832
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 380832

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	9/23/2024