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COG (ConocoPhillips)

2022 Soil Remediation Summary and Closure Request Report

Copperhead Fee A 003H

Incident # NAPP2205935207

February 2023

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Appendices

Appendix A. **Initial C-141 Form Incident # NAPP2205935207**

Appendix B. **Final C-141 Form Incident #NAPP2205935207**

Appendix C. **Work Plan**

Appendix D. **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 Copperhead Fee A 003H (Site). 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 approximately 17-miles southwest of the City of Malaga in Unit G, Section 30, Township 26 South, Range 29 East, Eddy County, New Mexico. A Site Location Map is included as **Figure 1**.

2.1 Incident # NAPP2205935207

According to the Initial C-141 Form, on February 8, 2022, a flex pipe was discovered bursting from abrasions due to severe weather at the Site. The leak resulted in the release of approximately 15.718 barrels (bbls) of produced water to ground surface at the Site. A vacuum truck recovered approximately 0 barrels (bbls) of produced water. The impacted area measured approximately 650 feet by 45 feet. The Initial C-141 Form was submitted to the (NMOCD) on February 24, 2022 and assigned Incident ID number NAPP2205935207. The Initial C-141 Form is included as **Appendix A** and the final C-141 form is included in **Appendix B.**

3 Site Characterization

Soil assessment activities were performed at the Site from March to April 2022 by Carmona resources, LLC (CRLLC) to determine the horizontal and vertical extent of the release area. The assessment activities associated analytical soil sample results and the initial proposed remediation/reclamation activities for the impacted areas are detailed in the 2022 Work Plan submitted previously by Carmona Resources, LLC (CRLLC) to the NMOCD (see **Appendix C**).

Arcadis began excavation activities at the Site in October 2022. Chloride concentrations in soil were determined during excavation activities to be below the applicable screening limit of 10,000 milligrams per kilogram (mg/Kg) for chloride at depths ranging from approximately 4 feet below ground surface (bgs) to 5 feet (bgs) within the center of the pasture area located south to southwest of the pad.

4 Closure Criteria for Soils Impacted by a Release

The NMOCD classifies the Site to use the medium stringent regulatory limits due to depth to groundwater being greater than 51 feet bgs Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to a Site with depth to ground water greater than 51 feet bgs, but less than 100 feet bgs:

Constituent	Limit (mg/Kg))
Chloride	10,0000 mg/Kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO) Diesel Range Organics (DRO) and Oil Range Organics (ORO)	2,500 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO) and Diesel Range Organics (DRO)	1,000 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 Environmental (Standard) from October 25 through November 17, 2022. 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 29,250 square foot area south to southwest of the pad. Soil analytical results are discussed in **Sections 5.3, 5.4, and 5.5**.

Excavation activities were conducted to a maximum depth of approximately 5 feet bgs east of the release area. Approximately 6,000 cubic yards of impacted soil were excavated from the release area. The limits of the excavation are presented on **Figure 2**. 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 300 truckloads of soil directly to the landfill on October 27 through November 8, 2022. 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 October 25, 2022, through November 14, 2022 for laboratory analyses. Following excavation of the impacted area, confirmation soil samples

were collected from the side walls and bottom of the excavation as needed to maintain an approximate 400 square foot sample spacing or less for both side walls and base of the excavated area. Sidewall confirmation sample locations are depicted in **Figure 2** and excavation base confirmation samples are depicted in **Figure 3**. The 400 sq ft. sampling variance was approved by Jennifer Nobui of the NMOCD on August 23, 2022.

The soil confirmation soil samples were collected in 4-oz jars provided by Eurofins Xenco Analytical Laboratory (Xenco) located in Midland, Texas, then placed on ice and shipped to Xenco 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 top 4 feet of soil were below the NMOCD reclamation limit of 600 mg/Kg. All soil samples collected within the excavated areas deeper than 4 feet bgs were below the NMAC closure criteria of 10,000 mg/Kg.

5.4 TPH

TPH concentrations were reported below the NMOCD reclamation limit of 100 mg/Kg at all sample locations for GRO, DRO, and ORO in all soil samples collected at depths less than 4 feet bgs.

TPH concentrations were reported below the NMAC screening standard of 2,500 mg/Kg at all sample locations for GRO, DRO, and ORO and below 1,000 mg/kg for GRO and DRO combined in all soil samples collected at depths greater than 4 feet bgs.

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 Plan

Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration limits had been removed, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near the original relative positions. The affected area was contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. Affected areas were located on the production pad. Excavated areas were topped with a topsoil similar to native the surrounding pasture material.

7 Summary

Analytical results associated with recent remediation activities conducted in 2022 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 greater than 51 feet bgs, but less than 100 feet bgs have been delineated both horizontally and vertically and excavated from the impacted area.

8 Soil Closure Request

Remediation activities were conducted in accordance with the NMOCD stipulations and the approved sampling variance request to sample 400 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 or remediation activities are recommended at this time for TPH, BTEX, or chloride impacts in soil at the Site.

Arcadis requests closure be granted to the Copperhead Fee A 003H site for Incident ID number NAPP2205935207. The Final C-141 Form is included as **Appendix B.**

Tables

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Table 1
2022 Soil Sample Analytical Results
Copperhead Fee 003H
COG (ConocoPhillips)

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				BTEX Methods							TPH Methods					CI Method
Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m-Xylene & p-Xylene (mg/kg)	o-Xylene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10/12 (mg/kg)	DRO C10/12-C28 (mg/kg)	DRO+GRO C6-C28 (mg/kg)	ORO C28-C35/36 (mg/kg)	TPH C6-C35/36 (mg/kg)	Chloride, Dissolved (mg/kg)
B-1-4'-102522	10/25/2022	4	In-Situ	<0.000438	<0.000519	<0.000643	<0.00115	<0.000392	<0.00115	<0.00115	41.4 JB	<17.0	41.4 J	<17.0	41.4 J	859
B-2-4'-102522	10/25/2022	4	In-Situ	<0.000418	<0.000496	<0.000614	<0.00110	<0.000374	<0.00110	<0.00110	32.9 JB	<16.3	32.9 J	<16.3	32.9 J	771
B-3-4'-103122	10/31/2022	4	In-Situ	<0.000427	<0.000506	<0.000626	<0.00112	<0.000381	<0.00112	<0.00112	20.8 JB	<16.5	20.8 J	<16.5	20.8 J	999
B-4-4'-103122	10/31/2022	4	In-Situ	<0.000418	<0.000495	<0.000614	<0.00110	<0.000374	<0.00110	<0.00110	18.1 JB	<16.3	18.1 J	<16.3	18.1 J	1,510
B-5-4'-103122	10/31/2022	4	In-Situ	<0.000425	<0.000503	<0.000623	<0.00111	<0.000380	<0.00111	<0.00111	18.4 JB	20.2 J	38.6 J	<16.6	38.6 J	3,820
B-6-4'-103122	10/31/2022	4	In-Situ	<0.000428	<0.000507	<0.000628	<0.00112	<0.000382	<0.00112	<0.00112	24.5 JB	<16.7	24.5 J	<16.7	24.5 J	3,410
B-7-4'-103122	10/31/2022	4	In-Situ	<0.000426	<0.000505	<0.000625	<0.00112	<0.000381	<0.00112	<0.00112	19.9 JB	18.1J	38.0 J	<16.7	38.0 J	3,070
B-8-4'-103122	10/31/2022	4	In-Situ	<0.000418	<0.000495	<0.000613	<0.00110	<0.000373	<0.00110	<0.00110	20.1 JB	<16.4	20.1 J	<16.4	20.1 J	2,040
B-9-4'-103122	10/31/2022	4	In-Situ	<0.000417	<0.000493	<0.000611	<0.00109	<0.000372	<0.00109	<0.00109	<16.2	16.5 J	16.5 J	<16.2	16.5 J	3,640
B-10-4'-103122	10/31/2022	4	In-Situ	<0.000409	<0.000484	<0.000600	<0.00107	<0.000365	<0.00107	<0.00107	21.6 JB	17.3 J	38.9 J	<15.9	38.9 J	1,670
B-11-4'-103122	10/31/2022	4	In-Situ	<0.000413	<0.000489	<0.000606	<0.00108	<0.000369	<0.00108	<0.00108	18.5 JB	16.4 J	34.9 J	<16.1	34.9 J	3,330
B-12-4'-103122	10/31/2022	4	In-Situ	<0.000418	<0.000496	<0.000614	<0.00110	<0.000374	<0.00110	<0.00110	21.7 JB	18.9 J	40.6 J	<16.3	40.6 J	2,760
B-13-4'-103122	10/31/2022	4	In-Situ	<0.000418	<0.000495	<0.000614	<0.00110	<0.000374	<0.00110	<0.00110	21.4 JB	17.2 J	38.6 J	<16.3	38.6 J	1,440
B-14-4'-103122	10/31/2022	4	In-Situ	<0.000414	<0.000490	<0.000607	<0.00109	<0.000370	<0.00109	<0.00109	22.4 JB	16.2 J	38.6 J	<16.2	38.6 J	2,590
B-15-4'-103122	10/31/2022	4	In-Situ	<0.000426	<0.000505	<0.000626	<0.00112	<0.000381	<0.00112	<0.00112	24.5 JB	18.0 J	42.5 J	<16.7	42.5 J	2,580
B-16-4'-103122	10/31/2022	4	In-Situ	<0.000418	<0.000495	<0.000613	<0.00110	<0.000373	<0.00110	<0.00110	20.1 JB	16.8J	36.9 J	<16.2	36.9 J	2,380
B-17-4'-110122	11/01/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	4,200
B-18-4'-110122	11/01/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,010
B-19-4'-110122	11/01/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,410
B-20-4'-110122	11/01/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	994
B-21-4'-110122	11/01/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,120
B-22-4'-110122	11/01/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,430
B-23-4'-110211	11/01/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	3,840
B-24-4'-110122	11/01/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	2,710
B-25-4'-110122	11/01/2022	4	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	2,210
B-26-4'-110222	11/02/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	426
b-27-4'-110222	11/02/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,340 F1
B-28-4'-110222	11/02/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	186
B-29-4'-110122	11/01/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	519
B-30-4'-110122	11/01/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	790
B-31-4'-110122	11/01/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1,660
B-32-4'-11012	11/01/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,300
B-33-4'-110122	11/01/2022	4	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1,930
B-34-4'-110122	11/01/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,000
B-35-4'-110222	11/02/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	249
B-36-4'-110222	11/02/2022	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	161
B-37-4'-110222	11/02/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1.40
B-38-4'-110222	11/02/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	189
B-39-4'-110222	11/02/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	203

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Table 1
2022 Soil Sample Analytical Results
Copperhead Fee 003H
COG (ConocoPhillips)

ARCADIS

				BTEX Methods							TPH Methods					Cl Method
Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m-Xylene & p-Xylene (mg/kg)	o-Xylene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10/12 (mg/kg)	DRO C10/12-C28 (mg/kg)	DRO+GRO C6-C28 (mg/kg)	ORO C28-C35/36 (mg/kg)	TPH C6-C35/36 (mg/kg)	Chloride, Dissolved (mg/kg)
B-40-4'-110222	11/02/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	187
B-41-4'-110222	11/02/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	212
B-42-4'-110222	11/02/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	320
B-43-4'-110322	11/03/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	3,590
B-44-4'-110322	11/03/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	2,810
B-45-4'-110322	11/03/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	951
B-46-4'-110322	11/03/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,600
B-47-4'-110322	11/03/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,280
B-48-4'-110322	11/03/2022	4	In-Situ	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00397	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	7,120
B-49-4'-110322	11/03/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	4,440
B-50-4'-110322	11/03/2022	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	2,260 F1
B-51-4'-110322	11/03/2022	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	111
B-52-4'-110322	11/03/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,080
B-53-4'-110322	11/03/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,690
B-54-4'-110322	11/03/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	267
B-55-4'-110322	11/03/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	2,430
B-56-4'-110322	11/03/2022	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	<0.00404	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	2,850
B-57-4'-110322	11/03/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	398
B-57-4'-110722	11/07/2022	4	In-Situ	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00397	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	1,290
B-58-4'-110822	11/07/2022	4	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	172
B-59-4'-110822	11/07/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,380
B-60-4'-110722	11/07/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,120
B-61-4'-110722	11/07/2022	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	203
B-62-4'-110722	11/07/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5,500
B-63-4'-110722	11/07/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	785
B-64-4'-110722	11/07/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	125
B-65-4'-110822	11/08/2022	4	Removed	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	**11,000**
B-65A-5'-111422	11/14/2022	5	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	2830
B-66-4'-110822	11/08/2022	4	Removed	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**14,100**
B-66A-5'-111422	11/14/2022	5	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,410
B-67-4'-110822	11/08/2022	4	Removed	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**11,200**
B-67A-5'-111422	11/14/2022	5	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	335
B-68-4'-110822	11/08/2022	4	Removed	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	**10,800**
B-68A-5'-111422	11/14/2022	5	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	2,840
B-69-4'-110822	11/08/2022	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	6,280
B-70-4'-110822	11/08/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	5,010
B-71-4'-110822	11/08/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,150
B-72-4'-110822	11/08/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5,690
B-73-4'-110822	11/08/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	775

Released to Imaging: 4/26/2023 10:12:53 AM

Received by OCD: 3/21/2023 10:12:02 AM

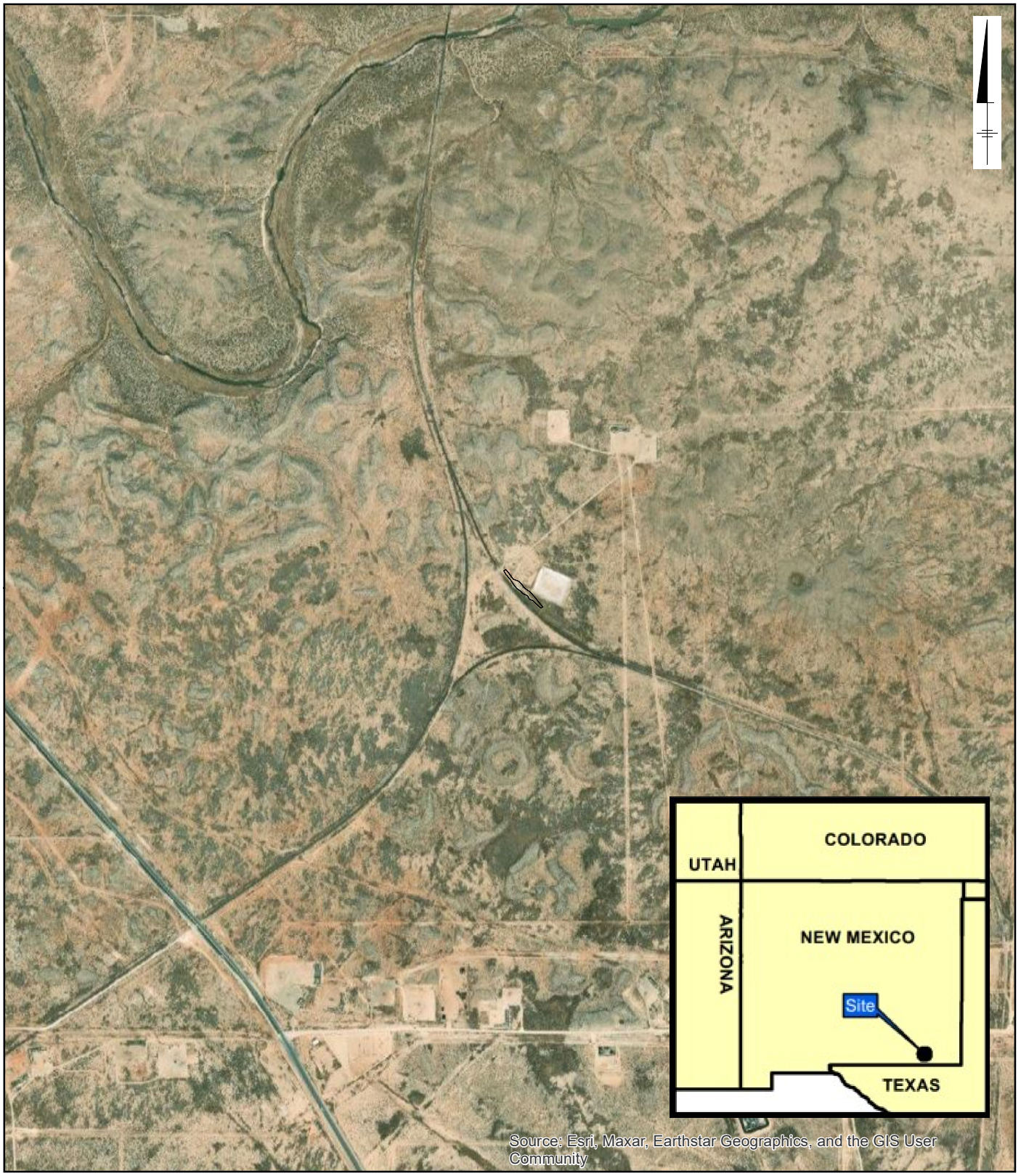
Table 1
2022 Soil Sample Analytical Results
Copperhead Fee 003H
COG (ConocoPhillips)

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				BTEX Methods							TPH Methods					CI Method
Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m-Xylene & p-Xylene (mg/kg)	o-Xylene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10/12 (mg/kg)	DRO C10/12-C28 (mg/kg)	DRO+GRO C6-C28 (mg/kg)	ORO C28-C35/36 (mg/kg)	TPH C6-C35/36 (mg/kg)	Chloride, Dissolved (mg/kg)
SW-1-0-4'-110122	11/01/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	283
SW-2-0-4'-110122	11/01/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	483
SW-3-0-4'-102522	10/25/2022	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	220
SW-4-0-4'-103122	10/31/2022	4	In-Situ	<0.000419	<0.000496	<0.000615	<0.00110	<0.000374	<0.00110	<0.00110	25.6 JB	<16.3	25.6 JB	<16.3	25.6J	173
SW-5-0-4'-102722	10/27/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	226
SW-6-0-4'-102722	10/27/2022	4	Removed	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	2,330
SW-6A-0-4'-110322	11/03/2022	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	62.9
SW-7-0-4'-110122	11/01/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	517
SW-8-0-4'-110122	11/01/2022	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	567
SW-8A-0'-4'-110722	11/07/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	48.1
SW-9-0-4'-110122	11/01/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	418
SW-10-0-4'-110322	11/03/2022	4	Removed	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	918
SW-10A-0-4'-111422	11/14/2022	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	82.7
SW-11-0-4'-110322	11/03/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	116
SW-12-0-4'-110722	11/07/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	101
SW-13-0-4'-110722	11/07/2022	4	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	374
SW-14-0-4'-110722	11/07/2022	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	90.8
TP-6-0-4'-102622	10/26/2022	4	Removed	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	1,800
NMOCD Reclamation Standard				**10**	--	--	--	--	--	**50**	--	--	--	--	**100**	**600**
NMOCD Closure Criteria				**10**	--	--	--	--	--	**50**	--	--	**1,000**	--	**2,500**	**10,000**

Legend:
Analytes exceedng NMAC standards are indicated in **bold**
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
mg/kg: Milligram per Kilogram
NMAC : New Mexico Administration Code
bgs: Below ground surface
B-Base sample
SW : Sidewall sample
Notes:
1. Chloride analyzed by EPA Method 300
2. TPH analyzed by EPA Method 8015 M
3. BTEX analyzed by EPA Method 8260B
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 Boundary

NOTES:

1. Datum: D_WGS_1984
2. Source: United States Geological Survey 7.5 Minute Quadrangle Map
3. Site Location: 32.015033,-104.022036

0 2,000 4,000 Feet

GRAPHIC SCALE

COG(CONOCOPHILLIPS)
COPPERHEAD FEE A 003H
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Div/Group: Created By: Last Saved By: WDBerndg
Project (Project #)
C:\BIMOneDrive - ARCADIS\GIS\Conoco-Copperhead Fee\mxd\FIG1 COPPERHEAD FEE A 003H SLM.mxd 12/14/2022 2:38:32 PM



CONOCOPHILLIPS
COPPERHEAD FEE A 003H
EDDY COUNTY, NEW MEXICO

EXCAVATION SIDEWALL SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 2

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\wdberndg.ARCADIS-US\ACCDocs\Arcadis\AUS-CONOCOPHILLIPS-COPPERHEAD FEE A 003H-EDDY COUNTY New Mexico\Project Files\2022\01-In Progress\01-DWG\COPPERHEAD SITE.dwg LAYOUT: FIG2 SAVED: 2/22/2023 6:17 PM ACADVER: 23.0S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 2/23/2023 3:26 PM BY: BERNDGEN, WENDY
PROJECTNAME: ----
XREFS:



LEGEND

GWDB-55' GROUNDWATER DETERMINATION BORING

SURFACE POLYLINE

EXCAVATED AREA

BASE SAMPLE LOCATION

0 80' 160'

Approximate Scale: 1 in. = 80 ft.

CONOCOPHILLIPS
COPPERHEAD FEE A 003H
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\wdberndg.ARCADIS-US\ACCDocs\Arcadis\AUS-CONOCOPHILLIPS-COPPERHEAD FEE A 003H-EDDY COUNTY New Mexico\Project Files\2022\01-In Progress\01-DWG\COPPERHEAD SITE.dwg LAYOUT: FIG3 SAVED: 2/22/2023 6:17 PM ACADVER: 23.0S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 2/23/2023 3:26 PM BY: BERNDGEN, WENDY
PROJECTNAME: ----
XREFS:

Photographic Logs

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Copperhead Fee A 003H	Eddy County, NM	NAPP2205935207

Photo No.	Date:
1	11/1/2022

Direction Photo Taken:

South

Description:

View of excavated area.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Copperhead Fee A 003H	Eddy County, NM	NAPP2205935207

Photo No.	Date:
2	11/1/2022

Direction Photo Taken:

South

Description:

View of excavated area from center.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Copperhead Fee A 003H	Eddy County, NM	NAPP2205935207

Photo No.	Date:
3	11/1/2022

Direction Photo Taken:

Norhtwest

Description:

View of truck loading activities.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Copperhead Fee A 003H	Eddy County, NM	NAPP2205935207

Photo No.	Date:
4	11/1/2022

Direction Photo Taken:

Southeast

Description:

View of backfilled area.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Copperhead Fee A 003H	Eddy County, NM	NAPP2205935207

Photo No.	Date:
5	11/1/2022

Direction Photo Taken:

South

Description:

View of excavated area.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
Copperhead Fee A 003H	Eddy County, NM	NAPP2205935207

Photo No.	Date:
6	11/1/2022

Direction Photo Taken:

South

Description:

View of backfilled area.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:/	Location:	Case No.
Copperhead Fee A 003H	Eddy County, NM	NAPP2205935207

Photo No.	Date:
7	11/1/2022

Direction Photo Taken:

South

Description:

View of backfilled area.



Appendix A

Initial C-141 Form Incident #NAPP2205935207

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	NAPP2205935207
District RP	
Facility ID	
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)*	NAPP2205935207
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.015167 Longitude -104.022139
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Copperhead Fee A 003H	Site Type	Flowline
Date Release Discovered	February 8, 2022	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
G	30	26S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ■ Private (*Name:* Leonard, Carol J & Perkins, Franklin Jr)

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) 15.718	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 flex pipe with abrasions bursting due to severe weather.
The release was off pad. A vacuum truck was dispatched to remove all freestanding fluids.
Evaluation at the site to will be made 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	NAPP2205935207
District RP	
Facility ID	
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: 2/24/2022

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

OCD Only

Received by: _____ Date: _____

Released to Imaging: 4/26/2023 10:12:53 AM
Received by OCD: 3/21/2023 10:12:02 AM

L48 Spill Volume Estimate Form

Facility Name & Number:	Copperhead Fee A #3H
Asset Area:	L48
Release Discovery Date & Time:	2-9-2022@11:30 a.m.
Release Type:	produced water
Provide any known details about the event:	Flex line had some damage to outer layer

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	20.0	27.0	4.00	15.12%	32.040	4.844
Rectangle B	48.0	6.0	4.00	15.12%	17.088	2.584
Rectangle C	68.0	6.0	4.00	15.12%	24.208	3.660
Rectangle D	24.0	16.0	4.00	15.12%	22.784	3.445
Rectangle E	44.0	3.0	4.00	15.12%	7.832	1.184
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Rectangle J					0.000	0.000
					Total Volume Release:	15.718

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205935207
District RP	
Facility ID	
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?	>55' (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205935207
District RP	
Facility ID	
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: 5.10.22

email: Jacqui.Harris@conocophillips.com Telephone: 575.496.0780

OCD Only

Received by: Jocelyn Harimon Date: 03/21/2023

Incident ID	NAPP2205935207
District RP	
Facility ID	
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: 5.10.22

email: Jacqui.Harris@conocophillips.com Telephone: 575.496.0780

OCD Only

Received by: Jocelyn Harimon Date: 03/21/2023

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

Signature: Date:

Appendix B

Final C-141 Form Incident #NAPP2205935207

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	NAPP2205935207
District RP	N/A
Facility ID	N/A
Application ID	N/A

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?	55 (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

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205935207
District RP	N/A
Facility ID	N/A
Application ID	N/A

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.

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: Ike Tavarez Title: _____Project Manager RM&R_____

Signature:_ _ _____ Date: __01/11/2023

email: ___ike.tavarez@conocophillips.com_____ Telephone: ___432-701-8630_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205935207
District RP	N/A
Facility ID	N/A
Application ID	N/A

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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.

Printed Name: Ike Tavarez Title: Project Manager

Signature: Date: 11/23/2022

email: ike.tavarez@conocophillips.com Telephone: 432-701-8630

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 04/26/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Appendix C

Work Plan

CARMONA RESOURCES

SITE INFORMATION

Closure Report
Copperhead Fee A 003H (02.08.22)
Incident #: NAPP2205935207
Eddy County, New Mexico
Unit G Sec 30 T26S R29E
32.015033°, -104.022036°

Produced Water Release
Point of Release: Flex Pipe Burst
Release Date: 02/08/2022
Volume Released: 15.718 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 88256

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 415
Midland, Texas 79701

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT & DRILLING ACTIVITIES

5.0 WORK PLAN PROPOSAL

6.0 CONCLUSIONS

FIGURES

FIGURE 1	**OVERVIEW**	**FIGURE 2**	**TOPOGRAPHIC**
FIGURE 3	**SAMPLE LOCATION**	**FIGURE 4**	**PROPOSED EXCAVATION**

APPENDICES

APPENDIX A	**TABLES**
APPENDIX B	**PHOTOS**
APPENDIX C	**INITIAL C-141 AND WORK PLAN**
APPENDIX D	**SITE CHARACTERIZATION AND GROUNDWATER**
APPENDIX E	**LABORATORY REPORTS**

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

May 6, 2022

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

Re: Work Plan
Copperhead Fee A 003H (02.08.22)
Concho Operating, LLC
Incident ID NAPP2205935207
Site Location: Unit G, S30, T26S, R29E
(Lat 32.015033º, Long -104.022036º)
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 Copperhead Fee A 003H (02.08.2022). The site is located at 32.015033º, -104.022036º within Unit G, S30, T26S, R29E, 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 February 08, 2022, caused by a flex pipe with abrasion bursting and severe weather. It resulted in the release of approximately 15.718 barrels of crude oil, and 0 barrels were recovered. See Figure 3 for the impacted areas. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is within a 0.50-mile radius of the location. The nearest identified well is located approximately 2.65 miles Northwest of the site in S27, T26S, R28E and was drilled in 2017. The well has a reported depth to groundwater of 145’ below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

On April 25, 2022, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 55’ below ground surface and within a 0.50-mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 55’ below the surface. The coordinates for the groundwater determination bore are 32.016146°, -104.021411. See Appendix D for the log.

CARMONA RESOURCES

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: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO)
- Chloride: 10,000 mg/kg

4.0 Site Assessment Activities

Initial Assessment

On March 09, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of thirteen (13) samples were advanced to depths ranging from surface – 4' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil 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. See Table 1 for the analytical results.

Referring to Table 1, all the (S1 through S-7) areas showed TPH, benzene, and total BTEX concentrations below the regulatory limits. Horizontal samples were taken (H-1 through H-6) and showed TPH, benzene, total BTEX, and chloride concentrations below the regulatory limits. Vertical delineation was not achieved via hand auger for (S-1 through S-7) areas, showing high chloride concentrations from surface to 3.5' below surface.

Drilling

On April 26, 2022, Carmona Resources personnel were on site to vertically define the release via an air rotary drilling rig. A total of seven (7) boreholes (BH-1 through BH-7) were installed to total depths ranging from surface to 25' below the surface. Select 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 Eurofinsl Laboratories in Midland, Texas. The samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

310 West Wall Street, Suite 415
Midland, Texas 79701
432.813.1992

CARMONA RESOURCES

The results of the sampling are summarized in Table 1. See Figure 3 for the sample locations.

5.0 Proposed Work Plan

Based on the analytical data and the detected chloride concentrations, COG proposes to remediate the areas as shown on Figure 4 and highlighted (blue) in Table 1. The top four feet will be held to the most stringent threshold following the reclamation requirements.

- All areas will be excavated to a depth of 4' below the surface and backfilled with clean material to grade.
- COG request a variance per 19.15.29.14. A NMAC will collect composite confirmation bottom and sidewall samples every 400 square feet.
- An estimated 2,932 cubic yards to be removed and hauled to the nearest disposal.

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

6.0 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, don't hesitate to contact us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

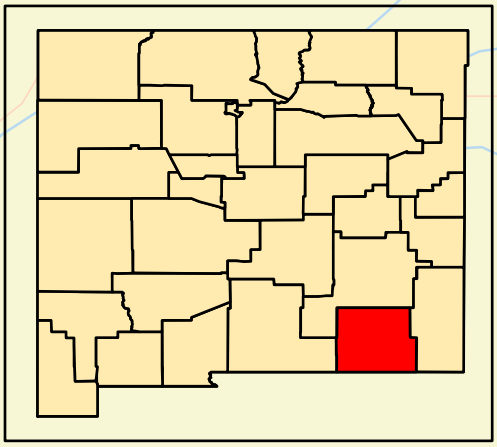
Mike Carmona
Environmental Manager

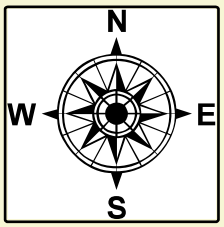
Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES







Malaga

Pecos Hwy

Red Bluff

Pecos Hwy

Red Bluff Reservoir

Angeles

Red Bluff

652

652

FM 652 E

FM 652 W

Orla

0 2 4 8 Miles

Legend

★ Site Location

OVERVIEW MAP
COG OPERATING
COPPERHEAD FEE A 003H (02.08.22)
EDDY COUNTY, NEW MEXICO
32.015033, -104.022036

SCALE: As Shown

Date: 5/5/2022

CARMONA RESOURCES

Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

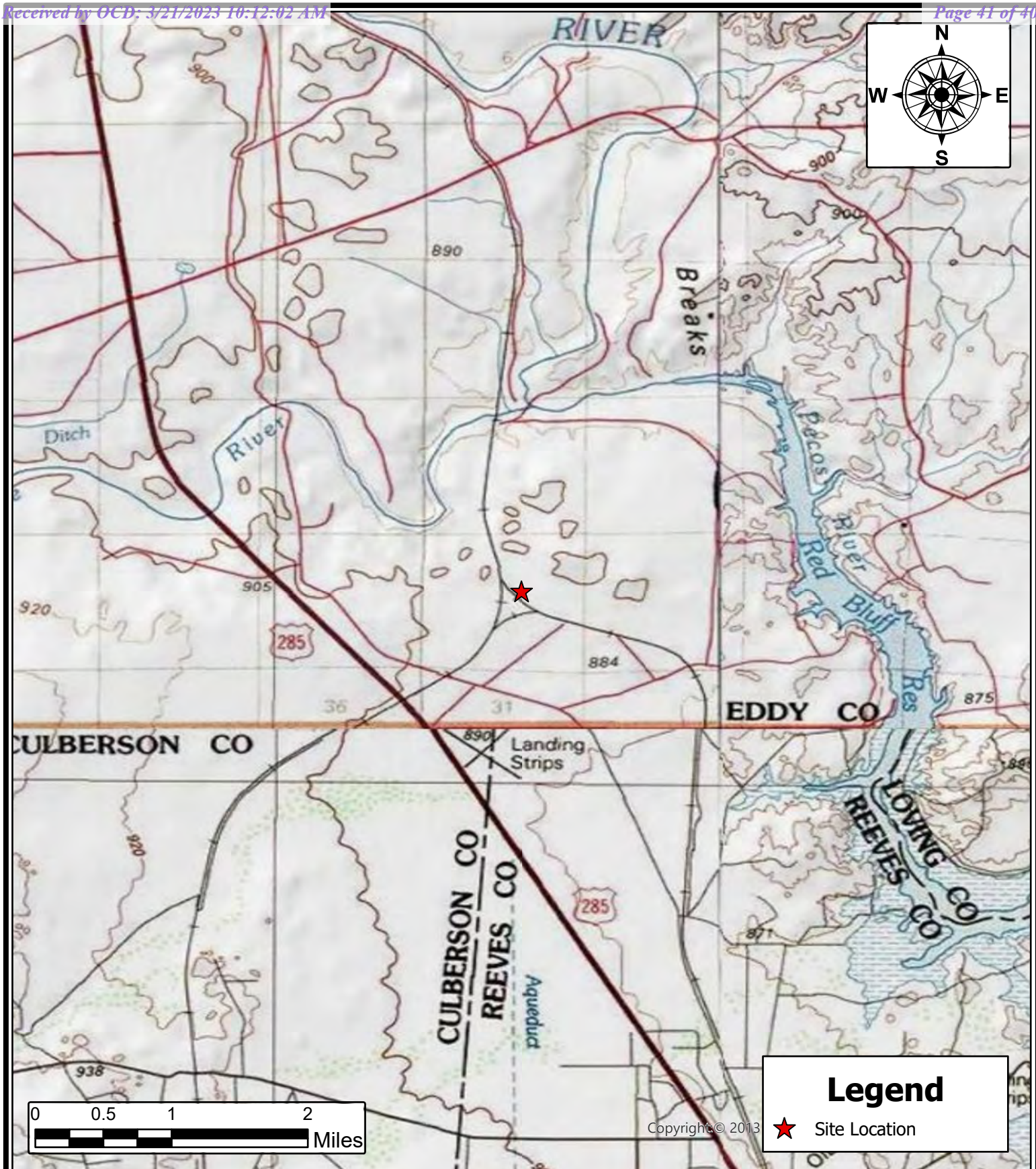
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1



TOPOGRAPHIC MAP
COG OPERATING
COPPERHEAD FEE A 003H (02.08.22)
EDDY COUNTY, NEW MEXICO
32.015033, -104.022036

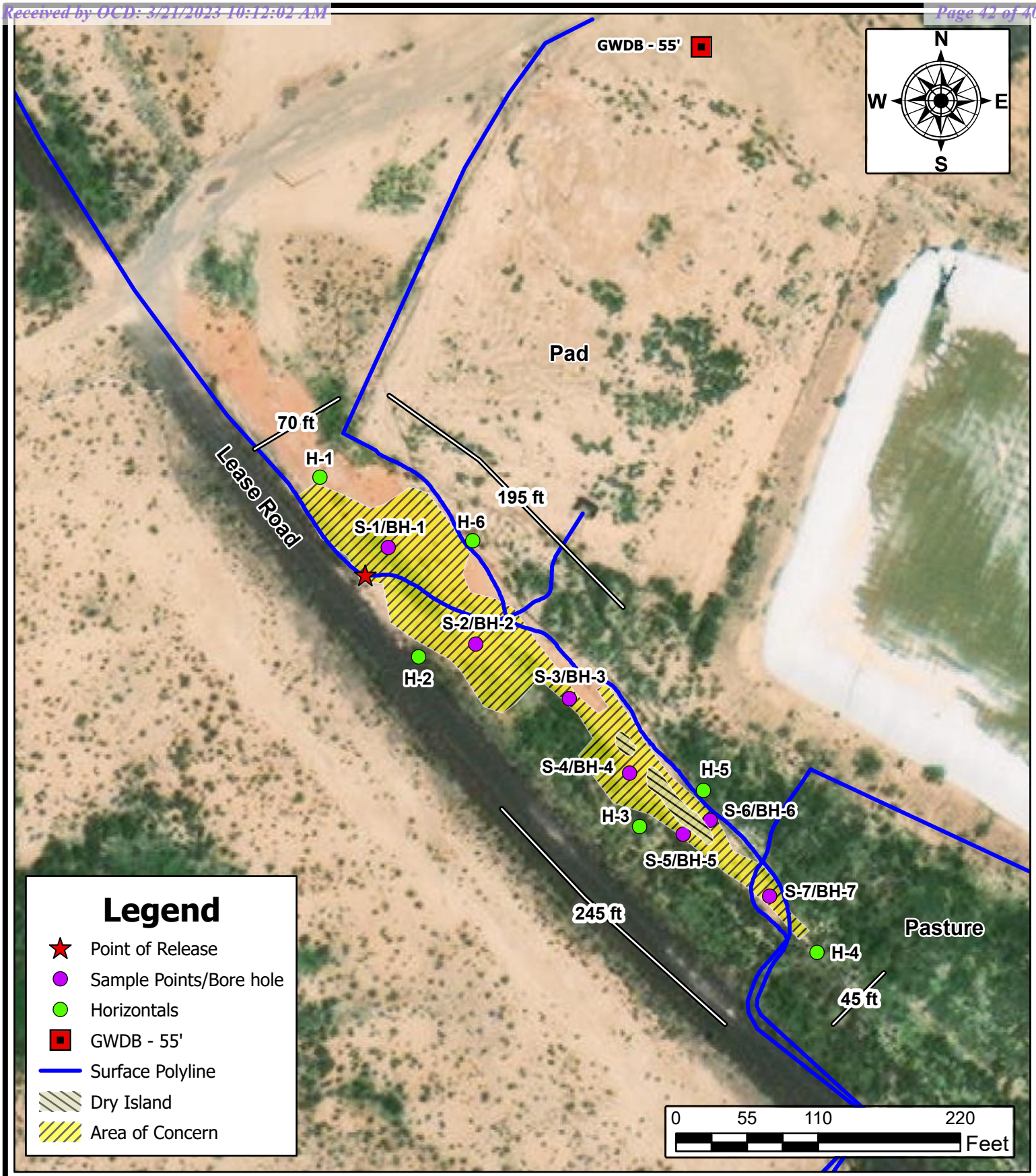
SCALE: As Shown | Date: 5/5/2022

CARMONA RESOURCES

Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1



Legend

- Point of Release
- Sample Points/Bore hole
- Horizontals
- GWDB - 55'
- Surface Polyline
- Dry Island
- Area of Concern

SAMPLE LOCATION MAP
COG OPERATING
COPPERHEAD FEE A 003H (02.08.22)
EDDY COUNTY, NEW MEXICO
32.015033, -104.022036

SCALE: As Shown

Date: 5/6/2022

CARMONA RESOURCES

Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

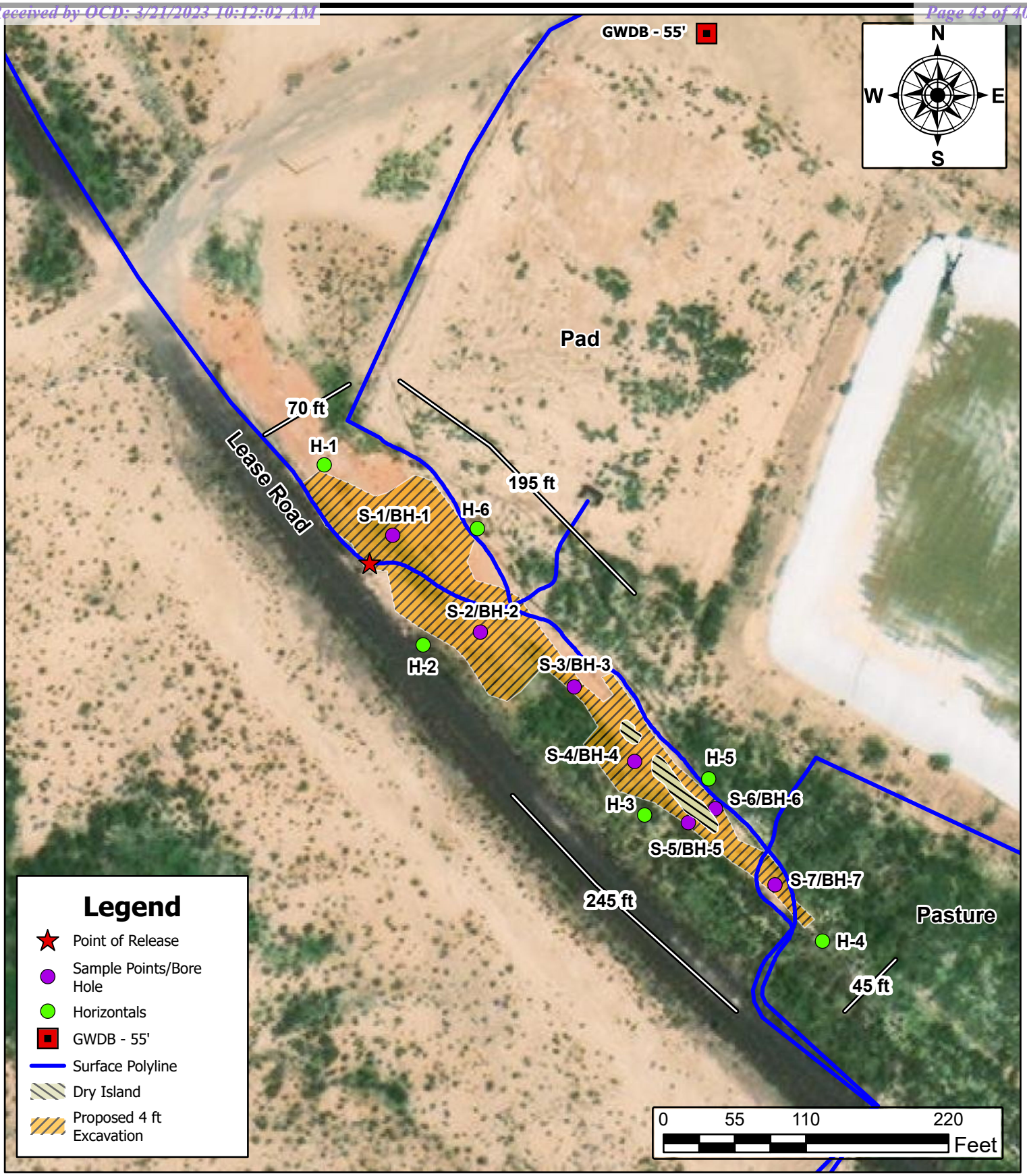
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1



PROPOSED EXCAVATION DEPTH MAP
COG OPERATING
COPPERHEAD FEE A 003H (02.08.22)
EDDY COUNTY, NEW MEXICO
32.015033, -104.022036

SCALE: As Shown | Date: 5/6/2022

CARMONA RESOURCES

Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 4
SHEET NUMBER:
1 of 1

APPENDIX A

CARMONA RESOURCES



Table 1
COG
Copperhead Fee A 3H (02.08.22)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	3/9/2022	0-1	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**9,730**
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**6,770**
	"	2.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**4,100**
	"	3.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**3,720**
BH-1	4/26/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	297
	"	2-3	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**685**
	"	4-5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**1,240**
	"	6-7	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	661
	"	9-10	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	262
S-2	3/9/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**3,860**
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**8,870**
BH-2	4/26/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**11,200**
	"	2-3	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**7,680**
	"	4-5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**4,450**
	"	6-7	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	344
S-3	3/9/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**8,290**
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**9,460**
	"	2.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**9,800**
	"	3.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00403	<0.00403	**7,900**
BH-3	4/26/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**8,280**
	"	2-3	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**7,620**
	"	4-5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	330
	"	6-7	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5,050
	"	9-10	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	4,000
	"	12-13	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,010
	"	14-15	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	62.5
S-4	3/9/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**8,170**
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**7,600**
	"	2.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**6,960**
BH-4	4/26/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**8,680**
	"	2-3	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**6,530**
	"	4-5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**3,700**
	"	6-7	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,810
	"	9-10	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	487
	"	12-13	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	375
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet
(S) Sample Point
(BH) Bore Hole
Proposed Excavation

Table 1
COG
Copperhead Fee A 3H (02.08.22)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-5	3/9/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**8,510**
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**8,940**
BH-5	4/26/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**17, 100**
	"	2-3	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**3,040**
	"	4-5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**1,620**
	"	6-7	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,830
	"	9-10	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,310
	"	12-13	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	689
	"	14-15	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	479
	"	19-20	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	133
S-6	3/9/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**7,380**
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**7,170**
BH-6	4/26/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**8,650**
	"	2-3	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**2,980**
	"	4-5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**1,600**
	"	6-7	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,800
	"	9-10	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,270
	"	12-13	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	658
	"	14-15	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	465
	"	19-20	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	394
	"	24-25	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	64.9
S-7	3/9/2022	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**6,180**
	"	1.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**6,570**
	"	2.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**867**
BH-7	4/26/2022	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**61,800**
	"	2-3	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**701**
	"	4-5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**1,610**
	"	6-7	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	226
H-1	3/9/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	24.8
H-2	3/9/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	8.72
H-3	3/9/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<4.99
H-4	3/9/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<4.97
H-5	3/9/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.00
H-6	3/9/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<4.99
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet
(S) Sample Point
(H) Horizontal
(BH) Bore Hole
Proposed Excavation

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Copperhead Fee A 3H (02.08.22)

County: Eddy County, New Mexico

Description:
View Northwest of S-1/BH-1.



Photograph No. 2

Facility: Copperhead Fee A 3H (02.08.22)

County: Eddy County, New Mexico

Description:
View Northeast of S-2/BH-2.

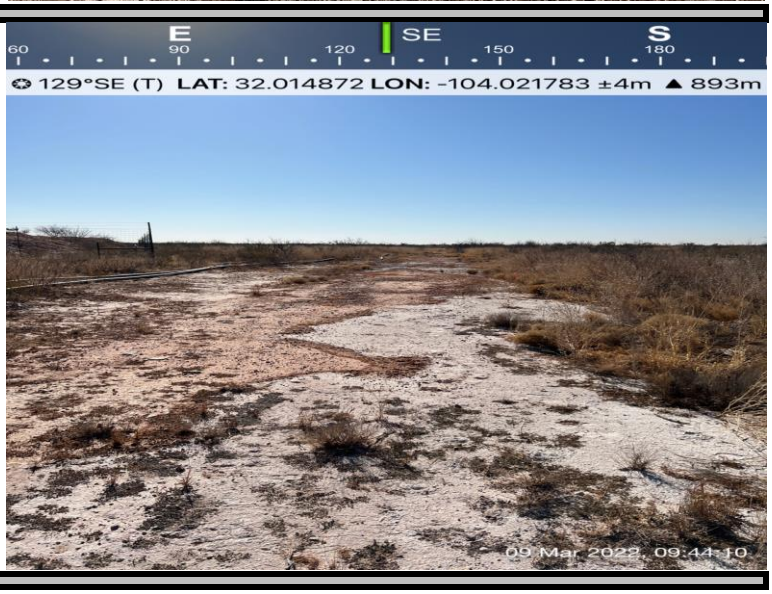


Photograph No. 3

Facility: Copperhead Fee A 3H (02.08.22)

County: Eddy County, New Mexico

Description:
View Southeast of S-3/BH-3.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Copperhead Fee A 3H (02.08.22)

County: Eddy County, New Mexico

Description:
View Southeast of S-5/BH-5 and S-6/BH-6.



Photograph No. 5

Facility: Copperhead Fee A 3H (02.08.22)

County: Eddy County, New Mexico

Description:
View Northwest of S-7/BH-7.



CARMONA RESOURCES

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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)	Volume Recovered (bbls)
	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		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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 _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Received by OCD: 3/21/2023 10:12:02 AM

L48 Spill Volume Estimate Form

Facility Name & Number:	Copperhead Fee A #3H
Asset Area:	L48
Release Discovery Date & Time:	2-9-2022@11:30 a.m.
Release Type:	produced water
Provide any known details about the event:	Flex line had some damage to outer layer

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	20.0	27.0	4.00	15.12%	32.040	4.844
Rectangle B	48.0	6.0	4.00	15.12%	17.088	2.584
Rectangle C	68.0	6.0	4.00	15.12%	24.208	3.660
Rectangle D	24.0	16.0	4.00	15.12%	22.784	3.445
Rectangle E	44.0	3.0	4.00	15.12%	7.832	1.184
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Rectangle J					0.000	0.000
					Total Volume Release:	15.718

Released to Imaging: 4/26/2023 10:12:53 AM

Incident ID	
District RP	
Facility ID	
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?	_____ (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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: _____ Title: _____

Signature: Jacqui Harris Date: 5.10.22

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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: __ _____ Title: _____

Signature: _____ Jacqui Harris _____ Date: 5.10.22

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

APPENDIX D

CARMONA RESOURCES

Received by OCD: 3/21/2023 10:12:02 AM

Groundwater Determination Bore

COG Operating

Legend

- 0.50 Mile Radius
- Copperhead Fee A 003H (02.08.22)
- GWDB - 55'

GWDB - 55'

Copperhead Fee A 003H (02.08.22)

N

2000 ft

Released to Imaging: 4/26/2023 10:12:53 AM

CARMONA RESOURCES

Project Name :	**COG - Copperhead Fee A 3H (02.08.22)**	**Date :**	**Monday, April 25, 2022**
Project No. :	**1023**	**Sampler :**	**Lane Scarborough**
Location :	**Eddy County, New Mexico**		
Coordinates :	**32.016146, -104.021411**	**Driller :**	**Scarborough Drilling**
Elevation :	**2,935'**	**Method :**	**Air Rotary**

Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Light Brown soft clayey sand, with 20% medium loose sub angular sand, dry, some organics (SC)	
5		(5') - Light Brown soft clayey sand, with 20% medium loose sub angular sand, dry, some organics (SC)	
10		(10') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)	
15		(15') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)	
20		(20') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)	
25		(25') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)	
30		(30') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
35		(35') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
40		(40') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
45		(45') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
50			

Depth (ft.)	WL	Soil Description	Lithology
50		(50') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
55		(55') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
60			
65			
70			
75			
80			
85			
90			
95			
105			

Comments : *Boring terminated at 55' at 10:00 AM Central Time with no presence of groundwater or moisture.*

Well gauged on 4/29/22 at 11:00 AM Central Time with no detection of groundwater or moisture

Received by OCD: 3/21/2023 10:12:02 AM

Nearest Water Well

COG Operating

Legend

- 0.50 Mile Radius
- 2.65 Miles
- 2.88 Miles
- 3.03 Miles
- Copperhead Fee A 003H (02.08.22)
- NMSEO Water Well
- USGS Water Well

22.35' - Drilled 1998

145' - Drilled 2017

68.74' - Drilled 1958

Copperhead Fee A 003H (02.08.22)

Pecos River

726

TEXAS

726

285

285

US Hwy 2

N

2 mi

Released to Imaging: 4/26/2023 10:12:53 AM

Received by OCD: 3/21/2023 10:12:02 AM

MEDIUM KARST

COG Operating

Legend

Copperhead Fee A 003H (02.08.22)

MEDIUM

Copperhead Fee A 003H (02.08.22)

Google Earth

3000 ft

N

Released to Imaging: 4/26/2023 10:12:53 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	Depth Well	Depth Water	Water Column
C 01354 X-3	CUB	ED	2	1	3	23	26S	29E	598323	3543837	170		
C 02038	C	ED	3	2	4	26	26S	29E	599204	3541992*	200		
C 03507 POD1	C	ED	1	3	3	05	26S	29E	593064	3548313	140	78	62
C 03508 POD1	C	ED	1	3	3	05	26S	29E	593063	3548361	140	75	65
C 03605 POD1	CUB	ED	4	2	3	27	26S	29E	596990	3541983	45	0	45
C 04561 POD1	CUB	ED	4	3	3	24	26S	29E	599924	3543208			

Average Depth to Water: **51 feet**

Minimum Depth: **0 feet**

Maximum Depth: **78 feet**

Record Count: 6

PLSS Search:

Township: 26S **Range:** 29E

***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.

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 04022 POD2	2	2	2	27	26S	28E	588106	3543082

Driller License:	1184	**Driller Company:**	WEST TEXAS WATER WELL SERVICE		
Driller Name:	KEITH, RONNY				
Drill Start Date:	05/08/2017	**Drill Finish Date:**	05/12/2017	**Plug Date:**	
Log File Date:	06/05/2017	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	60 GPM
Casing Size:	12.25	**Depth Well:**	250 feet	**Depth Water:**	145 feet

Water Bearing Stratifications:	Top	Bottom	Description
	150	160	Sandstone/Gravel/Conglomerate
	160	180	Sandstone/Gravel/Conglomerate
	180	190	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	130	250

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 Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: 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 =
- 320145104041701

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

USGS 320145104041701 26S.28E.22.234431

Eddy County, New Mexico
Latitude 32°01'45", Longitude 104°04'17" NAD27
Land-surface elevation 2,980 feet above NGVD29
The depth of the well is 23.00 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 measu
1987-12-12		D	62610		2958.98	NGVD29	1		S	
1987-12-12		D	62611		2960.55	NAVD88	1		S	
1987-12-12		D	72019	21.02			1		S	
1998-01-22		D	62610		2957.65	NGVD29	1		S	
1998-01-22		D	62611		2959.22	NAVD88	1		S	
1998-01-22		D	72019	22.35			1		S	

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

Section	Code	Description
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.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
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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: 2021-09-21 21:11:49 EDT
0.28 0.24 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: 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 =
- 320126103562801

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

USGS 320126103562801 26S.29E.22.340

Eddy County, New Mexico
Latitude 32°01'22", Longitude 103°58'26" NAD27
Land-surface elevation 2,888 feet above NGVD29
The depth of the well is 80 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) 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 measu
1958-08-18		D	62610		2819.26	NGVD29	1	Z		
1958-08-18		D	62611		2820.78	NAVD88	1	Z		
1958-08-18		D	72019	68.74			1	Z		

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

Released to Imaging: 4/26/2023 10:12:53 AM

Section	Code	Description
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.

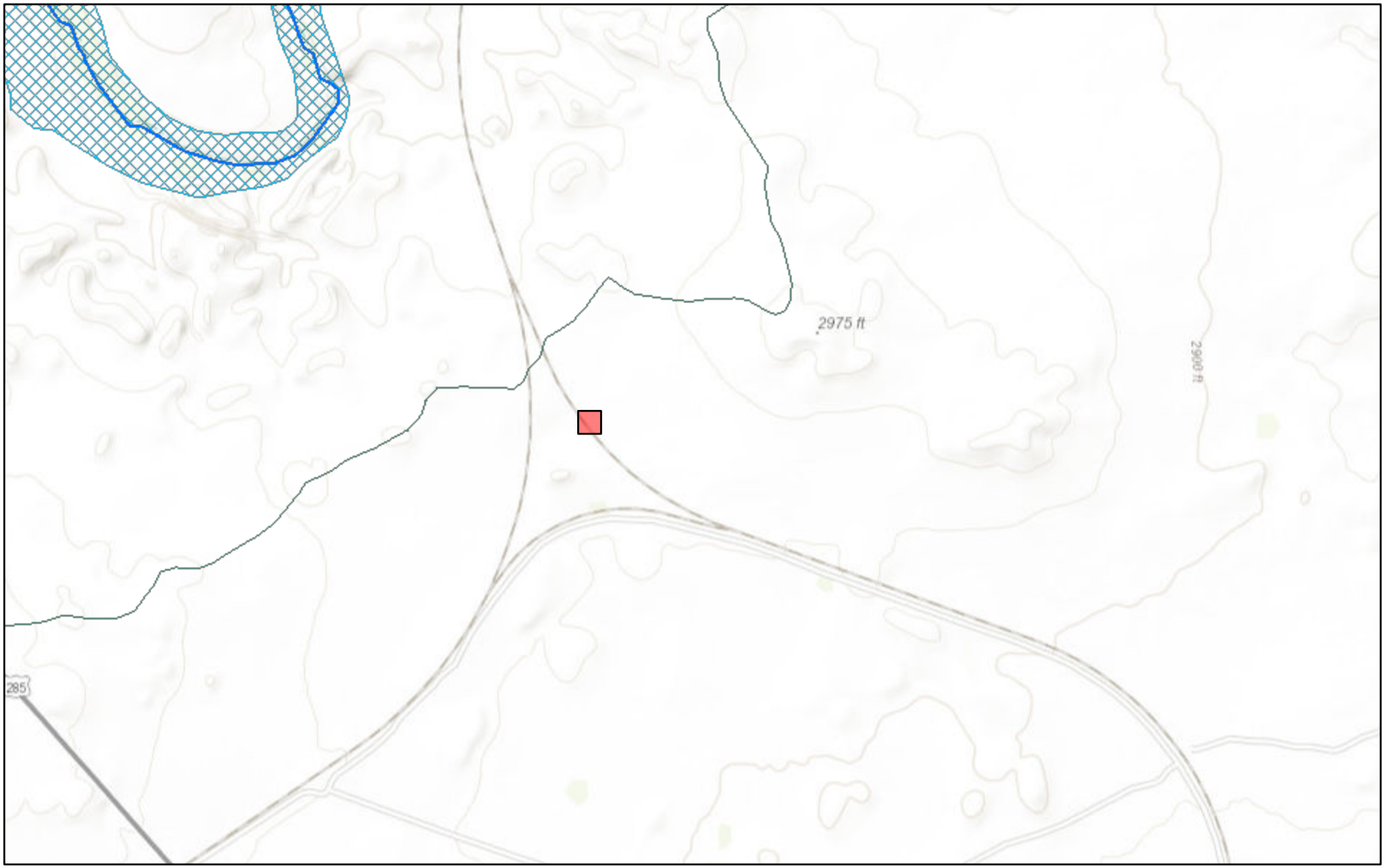
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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2021-09-21 21:14:35 EDT
0.27 0.23 nadww01

New Mexico NFHL Data



March 7, 2022

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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APPENDIX E

CARMONA RESOURCES



eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12274-1
Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Copperhead Fee A 3H (02.08.22)

For:
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Attn: Conner Moehring

JKramer

Authorized for release by:
3/16/2022 6:57:41 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Laboratory Job ID: 880-12274-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Job ID: 880-12274-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12274-1

Receipt
The samples were received on 3/10/2022 10:15 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 0.0°C

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-21288 and analytical batch 880-21366 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21289 and analytical batch 880-21441 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21146 and analytical batch 880-21440 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (0-1') (880-12274-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21455 and analytical batch 880-21464 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery 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 laboratory control sample (LCS) associated with preparation batch 880-21324 and analytical batch 880-21446 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-21325 and analytical batch 880-21446 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

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

HPLC/IC
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: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-1
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:09	03/12/22 00:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:09	03/12/22 00:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:09	03/12/22 00:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/10/22 11:09	03/12/22 00:45	1
o-Xylene	<0.00198	U *- *1	0.00198		mg/Kg		03/10/22 11:09	03/12/22 00:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/10/22 11:09	03/12/22 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/10/22 11:09*	*03/12/22 00:45*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/10/22 11:09*	*03/12/22 00:45*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 13:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/10/22 13:55	03/13/22 13:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/10/22 13:55	03/13/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*03/10/22 13:55*	*03/13/22 13:24*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/10/22 13:55*	*03/13/22 13:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9730**		99.8		mg/Kg			03/16/22 13:33	20

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-12274-2
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:09	03/12/22 01:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:09	03/12/22 01:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:09	03/12/22 01:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/10/22 11:09	03/12/22 01:05	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		03/10/22 11:09	03/12/22 01:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/22 11:09	03/12/22 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/10/22 11:09*	*03/12/22 01:05*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/10/22 11:09*	*03/12/22 01:05*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-12274-2
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 14:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 14:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*03/10/22 13:55*	*03/13/22 14:29*	*1*
o-Terphenyl	*87*		*70 - 130*	*03/10/22 13:55*	*03/13/22 14:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6770**		99.2		mg/Kg			03/16/22 13:41	20

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-12274-3
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:09	03/12/22 01:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:09	03/12/22 01:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:09	03/12/22 01:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/10/22 11:09	03/12/22 01:26	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		03/10/22 11:09	03/12/22 01:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/22 11:09	03/12/22 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/10/22 11:09*	*03/12/22 01:26*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/10/22 11:09*	*03/12/22 01:26*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 14:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 14:50	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-12274-3
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 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		03/10/22 13:55	03/13/22 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*03/10/22 13:55*	*03/13/22 14:50*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/10/22 13:55*	*03/13/22 14:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4100**		49.5		mg/Kg			03/16/22 13:50	10

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-12274-4
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 01:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 01:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 01:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/22 11:09	03/12/22 01:46	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		03/10/22 11:09	03/12/22 01:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/22 11:09	03/12/22 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/10/22 11:09*	*03/12/22 01:46*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/10/22 11:09*	*03/12/22 01:46*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 15:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/10/22 13:55	03/13/22 15:12	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/10/22 13:55	03/13/22 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*03/10/22 13:55*	*03/13/22 15:12*	*1*
o-Terphenyl	*105*		*70 - 130*	*03/10/22 13:55*	*03/13/22 15:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3720**		49.5		mg/Kg			03/16/22 13:59	10

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-5
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 02:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 02:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 02:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/10/22 11:09	03/12/22 02:06	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		03/10/22 11:09	03/12/22 02:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/10/22 11:09	03/12/22 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/10/22 11:09*	*03/12/22 02:06*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/10/22 11:09*	*03/12/22 02:06*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 15:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 15:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/10/22 13:55*	*03/13/22 15:33*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/10/22 13:55*	*03/13/22 15:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3860**		101		mg/Kg			03/16/22 14:08	20

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-12274-6
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:09	03/12/22 02:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:09	03/12/22 02:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:09	03/12/22 02:27	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/10/22 11:09	03/12/22 02:27	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		03/10/22 11:09	03/12/22 02:27	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/10/22 11:09	03/12/22 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/10/22 11:09*	*03/12/22 02:27*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/10/22 11:09*	*03/12/22 02:27*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-12274-6
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 15:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 15:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*03/10/22 13:55*	*03/13/22 15:54*	*1*
o-Terphenyl	*99*		*70 - 130*	*03/10/22 13:55*	*03/13/22 15:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8870**		99.8		mg/Kg			03/16/22 14:35	20

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

Lab Sample ID: 880-12274-7
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 02:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 02:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 02:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/10/22 11:09	03/12/22 02:47	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		03/10/22 11:09	03/12/22 02:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/10/22 11:09	03/12/22 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/10/22 11:09*	*03/12/22 02:47*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/10/22 11:09*	*03/12/22 02:47*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 16:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 16:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-7
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 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		03/10/22 13:55	03/13/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*03/10/22 13:55*	*03/13/22 16:15*	*1*
o-Terphenyl	*95*		*70 - 130*	*03/10/22 13:55*	*03/13/22 16:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8290**		99.4		mg/Kg			03/16/22 14:43	20

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-12274-8
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:09	03/12/22 03:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:09	03/12/22 03:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:09	03/12/22 03:08	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/10/22 11:09	03/12/22 03:08	1
o-Xylene	<0.00198	U *- *1	0.00198		mg/Kg		03/10/22 11:09	03/12/22 03:08	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/10/22 11:09	03/12/22 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/10/22 11:09*	*03/12/22 03:08*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/10/22 11:09*	*03/12/22 03:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 16:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 16:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/10/22 13:55*	*03/13/22 16:36*	*1*
o-Terphenyl	*102*		*70 - 130*	*03/10/22 13:55*	*03/13/22 16:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9460**		99.0		mg/Kg			03/16/22 15:10	20

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-3 (2.5')

Lab Sample ID: 880-12274-9
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 03:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 03:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 03:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/10/22 11:09	03/12/22 03:28	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		03/10/22 11:09	03/12/22 03:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/10/22 11:09	03/12/22 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/10/22 11:09*	*03/12/22 03:28*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/10/22 11:09*	*03/12/22 03:28*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 16:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 16:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*03/10/22 13:55*	*03/13/22 16:58*	*1*
o-Terphenyl	*109*		*70 - 130*	*03/10/22 13:55*	*03/13/22 16:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9800**		101		mg/Kg			03/16/22 15:19	20

Client Sample ID: S-3 (3.5')

Lab Sample ID: 880-12274-10
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:09	03/12/22 03:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:09	03/12/22 03:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:09	03/12/22 03:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/10/22 11:09	03/12/22 03:49	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		03/10/22 11:09	03/12/22 03:49	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/10/22 11:09	03/12/22 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/10/22 11:09*	*03/12/22 03:49*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/10/22 11:09*	*03/12/22 03:49*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-3 (3.5')

Lab Sample ID: 880-12274-10
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 17:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 17:19	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/10/22 13:55*	*03/13/22 17:19*	*1*
o-Terphenyl	*99*		*70 - 130*	*03/10/22 13:55*	*03/13/22 17:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7900**		99.6		mg/Kg			03/16/22 15:28	20

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

Lab Sample ID: 880-12274-11
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 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		03/13/22 12:38	03/14/22 11:41	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		03/13/22 12:38	03/14/22 11:41	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		03/13/22 12:38	03/14/22 11:41	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		03/13/22 12:38	03/14/22 11:41	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		03/13/22 12:38	03/14/22 11:41	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		03/13/22 12:38	03/14/22 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/13/22 12:38*	*03/14/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/13/22 12:38*	*03/14/22 11:41*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 18:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-11
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 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		03/10/22 13:55	03/13/22 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*03/10/22 13:55*	*03/13/22 18:00*	*1*
o-Terphenyl	*106*		*70 - 130*	*03/10/22 13:55*	*03/13/22 18:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8170**		100		mg/Kg			03/16/22 15:36	20

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-12274-12
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 12:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/13/22 12:38	03/14/22 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 12:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/13/22 12:38	03/14/22 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/13/22 12:38*	*03/14/22 12:02*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/13/22 12:38*	*03/14/22 12:02*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 18:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 18:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*03/10/22 13:55*	*03/13/22 18:21*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/10/22 13:55*	*03/13/22 18:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7600**		99.8		mg/Kg			03/16/22 15:45	20

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-4 (2.5')

Lab Sample ID: 880-12274-13
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 12:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 12:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 12:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/13/22 12:38	03/14/22 12:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 12:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/13/22 12:38	03/14/22 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/13/22 12:38*	*03/14/22 12:22*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*03/13/22 12:38*	*03/14/22 12:22*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 18:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 18:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/10/22 13:55*	*03/13/22 18:42*	*1*
o-Terphenyl	*94*		*70 - 130*	*03/10/22 13:55*	*03/13/22 18:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6960**		99.4		mg/Kg			03/16/22 15:54	20

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

Lab Sample ID: 880-12274-14
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 12:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 12:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 12:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/13/22 12:38	03/14/22 12:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 12:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/13/22 12:38	03/14/22 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/13/22 12:38*	*03/14/22 12:43*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/13/22 12:38*	*03/14/22 12:43*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Lab Sample ID: 880-12274-14
Matrix: Solid

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 19:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 19:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*03/10/22 13:55*	*03/13/22 19:02*	*1*
o-Terphenyl	*108*		*70 - 130*	*03/10/22 13:55*	*03/13/22 19:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8510**		100		mg/Kg			03/16/22 16:03	20

Client Sample ID: S-5 (1.5')

Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Lab Sample ID: 880-12274-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/13/22 12:38	03/14/22 13:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/13/22 12:38	03/14/22 13:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/13/22 12:38	03/14/22 13:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/13/22 12:38	03/14/22 13:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/13/22 12:38	03/14/22 13:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/13/22 12:38	03/14/22 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/13/22 12:38*	*03/14/22 13:03*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*03/13/22 12:38*	*03/14/22 13:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 19:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/10/22 13:55	03/13/22 19:23	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-12274-15
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 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)	<49.8	U	49.8		mg/Kg		03/10/22 13:55	03/13/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*03/10/22 13:55*	*03/13/22 19:23*	*1*
o-Terphenyl	*96*		*70 - 130*	*03/10/22 13:55*	*03/13/22 19:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8940**		49.8		mg/Kg			03/16/22 17:40	10

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

Lab Sample ID: 880-12274-16
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/13/22 12:38	03/14/22 13:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/13/22 12:38	03/14/22 13:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/13/22 12:38	03/14/22 13:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/13/22 12:38	03/14/22 13:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/13/22 12:38	03/14/22 13:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/13/22 12:38	03/14/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/13/22 12:38*	*03/14/22 13:24*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*03/13/22 12:38*	*03/14/22 13:24*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 19:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*03/10/22 13:55*	*03/13/22 19:43*	*1*
o-Terphenyl	*105*		*70 - 130*	*03/10/22 13:55*	*03/13/22 19:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7380**		100		mg/Kg			03/15/22 21:06	20

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-12274-17
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 13:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/13/22 12:38	03/14/22 13:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 13:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/13/22 12:38	03/14/22 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/13/22 12:38*	*03/14/22 13:44*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/13/22 12:38*	*03/14/22 13:44*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 20:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 20:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*03/10/22 13:55*	*03/13/22 20:04*	*1*
o-Terphenyl	*90*		*70 - 130*	*03/10/22 13:55*	*03/13/22 20:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7170**		99.0		mg/Kg			03/15/22 21:14	20

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

Lab Sample ID: 880-12274-18
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 14:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 14:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 14:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/13/22 12:38	03/14/22 14:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 14:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/13/22 12:38	03/14/22 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/13/22 12:38*	*03/14/22 14:05*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/13/22 12:38*	*03/14/22 14:05*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-18
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 20:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 20:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/22 13:55	03/13/22 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/10/22 13:55*	*03/13/22 20:24*	*1*
o-Terphenyl	*107*		*70 - 130*	*03/10/22 13:55*	*03/13/22 20:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6180**		50.4		mg/Kg			03/15/22 21:23	10

Client Sample ID: S-7 (1.5')

Lab Sample ID: 880-12274-19
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/13/22 12:38	03/14/22 14:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/13/22 12:38	03/14/22 14:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/13/22 12:38	03/14/22 14:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/13/22 12:38	03/14/22 14:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/13/22 12:38	03/14/22 14:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/13/22 12:38	03/14/22 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/13/22 12:38*	*03/14/22 14:25*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/13/22 12:38*	*03/14/22 14:25*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 20:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 20:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-7 (1.5')

Lab Sample ID: 880-12274-19
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 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		03/10/22 13:55	03/13/22 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/10/22 13:55*	*03/13/22 20:45*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/10/22 13:55*	*03/13/22 20:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6570**		99.8		mg/Kg			03/15/22 21:32	20

Client Sample ID: S-7 (2.5')

Lab Sample ID: 880-12274-20
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 14:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 14:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 14:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/13/22 12:38	03/14/22 14:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/13/22 12:38	03/14/22 14:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/13/22 12:38	03/14/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/13/22 12:38*	*03/14/22 14:46*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/13/22 12:38*	*03/14/22 14:46*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 13:55	03/13/22 21:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/10/22 13:55	03/13/22 21:07	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/10/22 13:55	03/13/22 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/10/22 13:55*	*03/13/22 21:07*	*1*
o-Terphenyl	*105*		*70 - 130*	*03/10/22 13:55*	*03/13/22 21:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**867**		25.1		mg/Kg			03/15/22 21:59	5

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-12274-21
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202		mg/Kg		03/10/22 11:12	03/12/22 19:03	1
Toluene	<0.00202	U F1	0.00202		mg/Kg		03/10/22 11:12	03/12/22 19:03	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		03/10/22 11:12	03/12/22 19:03	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403		mg/Kg		03/10/22 11:12	03/12/22 19:03	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		03/10/22 11:12	03/12/22 19:03	1
Xylenes, Total	<0.00403	U F1	0.00403		mg/Kg		03/10/22 11:12	03/12/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/10/22 11:12*	*03/12/22 19:03*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/10/22 11:12*	*03/12/22 19:03*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 14:09	03/14/22 04:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/10/22 14:09	03/14/22 04:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/22 14:09	03/14/22 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*03/10/22 14:09*	*03/14/22 04:06*	*1*
o-Terphenyl	*108*		*70 - 130*	*03/10/22 14:09*	*03/14/22 04:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.8**		4.98		mg/Kg			03/15/22 22:08	1

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-12274-22
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:12	03/12/22 19:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:12	03/12/22 19:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:12	03/12/22 19:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/10/22 11:12	03/12/22 19:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/22 11:12	03/12/22 19:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/22 11:12	03/12/22 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/10/22 11:12*	*03/12/22 19:24*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/10/22 11:12*	*03/12/22 19:24*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-12274-22
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 14:09	03/14/22 04:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/10/22 14:09	03/14/22 04:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/22 14:09	03/14/22 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/10/22 14:09*	*03/14/22 04:27*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/10/22 14:09*	*03/14/22 04:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.72**		4.95		mg/Kg			03/15/22 22:17	1

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-12274-23
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 19:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 19:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 19:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/22 11:12	03/12/22 19:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 19:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/22 11:12	03/12/22 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/10/22 11:12*	*03/12/22 19:44*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/10/22 11:12*	*03/12/22 19:44*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 14:09	03/14/22 04:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		03/10/22 14:09	03/14/22 04:48	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-12274-23
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 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		03/10/22 14:09	03/14/22 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*03/10/22 14:09*	*03/14/22 04:48*	*1*
o-Terphenyl	*102*		*70 - 130*	*03/10/22 14:09*	*03/14/22 04:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			03/15/22 22:25	1

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-12274-24
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:12	03/12/22 20:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:12	03/12/22 20:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:12	03/12/22 20:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/10/22 11:12	03/12/22 20:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/10/22 11:12	03/12/22 20:05	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/10/22 11:12	03/12/22 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/10/22 11:12*	*03/12/22 20:05*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/10/22 11:12*	*03/12/22 20:05*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 14:09	03/14/22 05:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/10/22 14:09	03/14/22 05:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/22 14:09	03/14/22 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*03/10/22 14:09*	*03/14/22 05:09*	*1*
o-Terphenyl	*86*		*70 - 130*	*03/10/22 14:09*	*03/14/22 05:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			03/15/22 22:34	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-12274-25
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 20:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 20:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 20:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/10/22 11:12	03/12/22 20:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 20:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/10/22 11:12	03/12/22 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/10/22 11:12*	*03/12/22 20:25*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/10/22 11:12*	*03/12/22 20:25*	*1*

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 14:09	03/14/22 05:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		03/10/22 14:09	03/14/22 05:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/10/22 14:09	03/14/22 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*03/10/22 14:09*	*03/14/22 05:29*	*1*
o-Terphenyl	*102*		*70 - 130*	*03/10/22 14:09*	*03/14/22 05:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/15/22 22:43	1

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-12274-26
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:12	03/12/22 20:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:12	03/12/22 20:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:12	03/12/22 20:46	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/10/22 11:12	03/12/22 20:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/10/22 11:12	03/12/22 20:46	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/10/22 11:12	03/12/22 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/10/22 11:12*	*03/12/22 20:46*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/10/22 11:12*	*03/12/22 20:46*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: H-6 (0-0.5')

Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Lab Sample ID: 880-12274-26

Matrix: Solid

Method: 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			03/14/22 14:30	1

Method: 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			03/14/22 09:02	1

Method: 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		03/10/22 14:09	03/14/22 05:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		03/10/22 14:09	03/14/22 05:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 14:09	03/14/22 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*03/10/22 14:09*	*03/14/22 05:49*	*1*
o-Terphenyl	*98*		*70 - 130*	*03/10/22 14:09*	*03/14/22 05:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			03/15/22 23:10	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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)
880-12263-A-1-H MS	Matrix Spike	112	95
880-12263-A-1-I MSD	Matrix Spike Duplicate	2911 S1+	176 S1+
880-12274-1	S-1 (0-1')	105	105
880-12274-1 MS	S-1 (0-1')	99	99
880-12274-1 MSD	S-1 (0-1')	101	99
880-12274-2	S-1 (1.5')	100	93
880-12274-3	S-1 (2.5')	108	97
880-12274-4	S-1 (3.5')	107	97
880-12274-5	S-2 (0-1')	104	102
880-12274-6	S-2 (1.5')	106	106
880-12274-7	S-3 (0-1')	106	101
880-12274-8	S-3 (1.5')	118	99
880-12274-9	S-3 (2.5')	108	100
880-12274-10	S-3 (3.5')	108	102
880-12274-11	S-4 (0-1')	107	108
880-12274-11 MS	S-4 (0-1')	103	110
880-12274-11 MSD	S-4 (0-1')	104	112
880-12274-12	S-4 (1.5')	94	100
880-12274-13	S-4 (2.5')	105	110
880-12274-14	S-5 (0-1')	115	106
880-12274-15	S-5 (1.5')	106	110
880-12274-16	S-6 (0-1')	106	110
880-12274-17	S-6 (1.5')	110	98
880-12274-18	S-7 (0-1')	109	101
880-12274-19	S-7 (1.5')	110	100
880-12274-20	S-7 (2.5')	107	109
880-12274-21	H-1 (0-0.5')	95	96
880-12274-21 MS	H-1 (0-0.5')	101	112
880-12274-21 MSD	H-1 (0-0.5')	106	106
880-12274-22	H-2 (0-0.5')	101	99
880-12274-23	H-3 (0-0.5')	101	101
880-12274-24	H-4 (0-0.5')	110	103
880-12274-25	H-5 (0-0.5')	104	99
880-12274-26	H-6 (0-0.5')	105	101
LCS 880-21146/1-A	Lab Control Sample	94	98
LCS 880-21288/1-A	Lab Control Sample	95	103
LCS 880-21289/1-A	Lab Control Sample	101	112
LCS 880-21455/1-A	Lab Control Sample	102	109
LCSD 880-21146/2-A	Lab Control Sample Dup	97	101
LCSD 880-21288/2-A	Lab Control Sample Dup	92	101
LCSD 880-21289/2-A	Lab Control Sample Dup	101	112
LCSD 880-21455/2-A	Lab Control Sample Dup	103	112
MB 880-21012/5-A	Method Blank	95	100
MB 880-21146/5-A	Method Blank	97	99
MB 880-21288/5-A	Method Blank	97	101
MB 880-21289/5-A	Method Blank	102	104
MB 880-21365/5-A	Method Blank	97	101
MB 880-21455/5-A	Method Blank	100	103

Surrogate Legend

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-12272-A-1-B MS	Matrix Spike	91	78										
880-12272-A-1-C MSD	Matrix Spike Duplicate	97	80										
880-12274-1	S-1 (0-1')	104	101										
880-12274-1 MS	S-1 (0-1')	102	90										
880-12274-1 MSD	S-1 (0-1')	100	90										
880-12274-2	S-1 (1.5')	89	87										
880-12274-3	S-1 (2.5')	104	101										
880-12274-4	S-1 (3.5')	112	105										
880-12274-5	S-2 (0-1')	106	103										
880-12274-6	S-2 (1.5')	107	99										
880-12274-7	S-3 (0-1')	100	95										
880-12274-8	S-3 (1.5')	105	102										
880-12274-9	S-3 (2.5')	112	109										
880-12274-10	S-3 (3.5')	105	99										
880-12274-11	S-4 (0-1')	109	106										
880-12274-12	S-4 (1.5')	103	101										
880-12274-13	S-4 (2.5')	98	94										
880-12274-14	S-5 (0-1')	111	108										
880-12274-15	S-5 (1.5')	101	96										
880-12274-16	S-6 (0-1')	111	105										
880-12274-17	S-6 (1.5')	95	90										
880-12274-18	S-7 (0-1')	110	107										
880-12274-19	S-7 (1.5')	108	103										
880-12274-20	S-7 (2.5')	106	105										
880-12274-21	H-1 (0-0.5')	113	108										
880-12274-22	H-2 (0-0.5')	99	91										
880-12274-23	H-3 (0-0.5')	111	102										
880-12274-24	H-4 (0-0.5')	92	86										
880-12274-25	H-5 (0-0.5')	114	102										
880-12274-26	H-6 (0-0.5')	107	98										
LCS 880-21324/2-A	Lab Control Sample	89	85										
LCS 880-21325/2-A	Lab Control Sample	101	94										
LCSD 880-21324/3-A	Lab Control Sample Dup	88	83										
LCSD 880-21325/3-A	Lab Control Sample Dup	120	125										
MB 880-21324/1-A	Method Blank	91	92										
MB 880-21325/1-A	Method Blank	109	109										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21012/5-A
Matrix: Solid
Analysis Batch: 21440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/11/22 16:00	03/13/22 07:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/11/22 16:00	03/13/22 07:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/11/22 16:00	03/13/22 07:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/11/22 16:00	03/13/22 07:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/11/22 16:00	03/13/22 07:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/11/22 16:00	03/13/22 07:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/11/22 16:00*	*03/13/22 07:08*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/11/22 16:00*	*03/13/22 07:08*	*1*

Lab Sample ID: MB 880-21146/5-A
Matrix: Solid
Analysis Batch: 21440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:58	03/13/22 19:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:58	03/13/22 19:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:58	03/13/22 19:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/13/22 12:58	03/13/22 19:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:58	03/13/22 19:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/13/22 12:58	03/13/22 19:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/13/22 12:58*	*03/13/22 19:01*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/13/22 12:58*	*03/13/22 19:01*	*1*

Lab Sample ID: LCS 880-21146/1-A
Matrix: Solid
Analysis Batch: 21440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21146

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09993		mg/Kg		100	70 - 130		
Toluene			0.100	0.09490		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09416		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.2203		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1080		mg/Kg		108	70 - 130		

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

Lab Sample ID: LCSD 880-21146/2-A
Matrix: Solid
Analysis Batch: 21440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1051		mg/Kg		105	70 - 130	5	35

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-21146/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21440 — **Prep Batch: 21146**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.1004		mg/Kg		100	70 - 130	6	35
Ethylbenzene			0.100	0.09886		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2316		mg/Kg		116	70 - 130	5	35
o-Xylene			0.100	0.1131		mg/Kg		113	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-12263-A-1-H MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21440 — **Prep Batch: 21146**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.04828	F1	mg/Kg		48	70 - 130
Toluene	<0.00199	U F2 F1	0.100	0.05479	F1	mg/Kg		54	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.100	0.06147	F1	mg/Kg		61	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1430		mg/Kg		71	70 - 130
o-Xylene	<0.00199	U F2 F1	0.100	0.07492		mg/Kg		75	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-12263-A-1-I MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21440 — **Prep Batch: 21146**

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	0.04152	F1	mg/Kg		42	70 - 130	15	35
Toluene	<0.00199	U F2 F1	0.0996	0.002562	F2 F1	mg/Kg		2	70 - 130	182	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*2911*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*176*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-21288/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21366 — **Prep Batch: 21288**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 00:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 00:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 00:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/22 11:09	03/12/22 00:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:09	03/12/22 00:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/22 11:09	03/12/22 00:16	1

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-21288/5-A
Matrix: Solid
Analysis Batch: 21366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21288

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/10/22 11:09	03/12/22 00:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/10/22 11:09	03/12/22 00:16	1

Lab Sample ID: LCS 880-21288/1-A
Matrix: Solid
Analysis Batch: 21366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21288

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09283		mg/Kg		93	70 - 130		
Toluene			0.100	0.08764		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08775		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.2044		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.04728	*-	mg/Kg		47	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-21288/2-A
Matrix: Solid
Analysis Batch: 21366

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08524		mg/Kg		85	70 - 130	9	35
Toluene			0.100	0.08377		mg/Kg		84	70 - 130	5	35
Ethylbenzene			0.100	0.08529		mg/Kg		85	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1972		mg/Kg		99	70 - 130	4	35
o-Xylene			0.100	0.09898	*1	mg/Kg		99	70 - 130	71	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-12274-1 MS
Matrix: Solid
Analysis Batch: 21366

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 21288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U	0.100	0.06972		mg/Kg		70	70 - 130		
Toluene	<0.00198	U	0.100	0.07182		mg/Kg		71	70 - 130		
Ethylbenzene	<0.00198	U	0.100	0.07434		mg/Kg		74	70 - 130		
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1737		mg/Kg		87	70 - 130		
o-Xylene	<0.00198	U *- *1	0.100	0.08621		mg/Kg		86	70 - 130		

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

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-1 MSD — **Client Sample ID: S-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21366 — **Prep Batch: 21288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0996	0.07069		mg/Kg		71	70 - 130	1	35
Toluene	<0.00198	U	0.0996	0.07374		mg/Kg		74	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.0996	0.07468		mg/Kg		75	70 - 130	0	35
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1750		mg/Kg		88	70 - 130	1	35
o-Xylene	<0.00198	U *- *1	0.0996	0.08604		mg/Kg		86	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-21289/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21441 — **Prep Batch: 21289**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 18:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 18:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 18:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/22 11:12	03/12/22 18:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/22 11:12	03/12/22 18:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/22 11:12	03/12/22 18:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/10/22 11:12*	*03/12/22 18:42*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/10/22 11:12*	*03/12/22 18:42*	*1*

Lab Sample ID: LCS 880-21289/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21441 — **Prep Batch: 21289**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1099		mg/Kg		110	70 - 130
Toluene	0.100	0.1067		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2193		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1082		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-21289/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21441 — **Prep Batch: 21289**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1130		mg/Kg		113	70 - 130	3	35
Toluene	0.100	0.1096		mg/Kg		110	70 - 130	3	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-21289/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21441 — **Prep Batch: 21289**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.1078		mg/Kg		108	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2253		mg/Kg		113	70 - 130	3	35
o-Xylene			0.100	0.1103		mg/Kg		110	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-12274-21 MS — **Client Sample ID: H-1 (0-0.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21441 — **Prep Batch: 21289**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1	0.100	0.06597	F1	mg/Kg		66	70 - 130
Toluene	<0.00202	U F1	0.100	0.06194	F1	mg/Kg		61	70 - 130
Ethylbenzene	<0.00202	U F1	0.100	0.06077	F1	mg/Kg		60	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1	0.201	0.1254	F1	mg/Kg		62	70 - 130
o-Xylene	<0.00202	U F1	0.100	0.06701	F1	mg/Kg		66	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-12274-21 MSD — **Client Sample ID: H-1 (0-0.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21441 — **Prep Batch: 21289**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.05849	F1	mg/Kg		58	70 - 130	12	35
Toluene	<0.00202	U F1	0.100	0.05722	F1	mg/Kg		57	70 - 130	8	35
Ethylbenzene	<0.00202	U F1	0.100	0.05832	F1	mg/Kg		57	70 - 130	4	35
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1205	F1	mg/Kg		59	70 - 130	4	35
o-Xylene	<0.00202	U F1	0.100	0.06550	F1	mg/Kg		65	70 - 130	2	35

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

Lab Sample ID: MB 880-21365/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21366 — **Prep Batch: 21365**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:50	03/11/22 12:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:50	03/11/22 12:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:50	03/11/22 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/11/22 08:50	03/11/22 12:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/11/22 08:50	03/11/22 12:40	1

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-21365/5-A
Matrix: Solid
Analysis Batch: 21366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/11/22 08:50	03/11/22 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/11/22 08:50*	*03/11/22 12:40*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/11/22 08:50*	*03/11/22 12:40*	*1*

Lab Sample ID: MB 880-21455/5-A
Matrix: Solid
Analysis Batch: 21464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/13/22 12:38	03/14/22 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/22 12:38	03/14/22 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/13/22 12:38	03/14/22 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/13/22 12:38*	*03/14/22 11:20*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/13/22 12:38*	*03/14/22 11:20*	*1*

Lab Sample ID: LCS 880-21455/1-A
Matrix: Solid
Analysis Batch: 21464

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1068		mg/Kg		107	70 - 130
Toluene	0.100	0.1051		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2174		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1062		mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-21455/2-A
Matrix: Solid
Analysis Batch: 21464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21455

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	4	35
Toluene	0.100	0.1004		mg/Kg		100	70 - 130	5	35
Ethylbenzene	0.100	0.1009		mg/Kg		101	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2097		mg/Kg		105	70 - 130	4	35
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	4	35

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-21455/2-A
Matrix: Solid
Analysis Batch: 21464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21455

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

Lab Sample ID: 880-12274-11 MS
Matrix: Solid
Analysis Batch: 21464

Client Sample ID: S-4 (0-1')
Prep Type: Total/NA
Prep Batch: 21455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0996	0.05807	F1	mg/Kg		58	70 - 130
Toluene	<0.00199	U F1	0.0996	0.05801	F1	mg/Kg		58	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.05846	F1	mg/Kg		59	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1189	F1	mg/Kg		60	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.06215	F1	mg/Kg		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-12274-11 MSD
Matrix: Solid
Analysis Batch: 21464

Client Sample ID: S-4 (0-1')
Prep Type: Total/NA
Prep Batch: 21455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.04882	F1	mg/Kg		49	70 - 130	17	35
Toluene	<0.00199	U F1	0.0998	0.04688	F1	mg/Kg		47	70 - 130	21	35
Ethylbenzene	<0.00199	U F1	0.0998	0.04609	F1	mg/Kg		46	70 - 130	24	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.09432	F1	mg/Kg		47	70 - 130	23	35
o-Xylene	<0.00199	U F1	0.0998	0.05035	F1	mg/Kg		50	70 - 130	21	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-21324/1-A
Matrix: Solid
Analysis Batch: 21446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21324

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		03/10/22 13:55	03/13/22 12:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 12:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 13:55	03/13/22 12:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/10/22 13:55	03/13/22 12:19	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-21324/1-A
Matrix: Solid
Analysis Batch: 21446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21324

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		70 - 130	03/10/22 13:55	03/13/22 12:19	1

Lab Sample ID: LCS 880-21324/2-A
Matrix: Solid
Analysis Batch: 21446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21324

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	656.9	*-	mg/Kg		66	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	756.2		mg/Kg		76	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: LCSD 880-21324/3-A
Matrix: Solid
Analysis Batch: 21446

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21324

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	723.7		mg/Kg		72	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	758.2		mg/Kg		76	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-12274-1 MS
Matrix: Solid
Analysis Batch: 21446

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 21324

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	998	1158		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1204		mg/Kg		119	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	90		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-1 MSD — **Client Sample ID: S-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21446 — **Prep Batch: 21324**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	998	1120		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1197		mg/Kg		118	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: MB 880-21325/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21446 — **Prep Batch: 21325**

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		03/10/22 14:09	03/13/22 21:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/10/22 14:09	03/13/22 21:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/10/22 14:09	03/13/22 21:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*03/10/22 14:09*	*03/13/22 21:50*	*1*
o-Terphenyl	*109*		*70 - 130*	*03/10/22 14:09*	*03/13/22 21:50*	*1*

Lab Sample ID: LCS 880-21325/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21446 — **Prep Batch: 21325**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	826.9		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	872.1		mg/Kg		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-21325/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 21446 — **Prep Batch: 21325**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	959.8		mg/Kg		96	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	1000	1163	*1	mg/Kg		116	70 - 130	29	20

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-21325/3-A
Matrix: Solid
Analysis Batch: 21446

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21325

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: 880-12272-A-1-B MS
Matrix: Solid
Analysis Batch: 21446

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1206		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	1020	*1	998	1990		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 880-12272-A-1-C MSD
Matrix: Solid
Analysis Batch: 21446

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 21325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1256		mg/Kg		124	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1020	*1	998	2087		mg/Kg		107	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	80		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21306/1-A
Matrix: Solid
Analysis Batch: 21619

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			03/16/22 10:17	1

Lab Sample ID: LCS 880-21306/2-A
Matrix: Solid
Analysis Batch: 21619

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	244.3		mg/Kg		98	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-21306/3-A
Matrix: Solid
Analysis Batch: 21619

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	244.2		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-12274-5 MS
Matrix: Solid
Analysis Batch: 21619

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3860		5050	8777		mg/Kg		97	90 - 110

Lab Sample ID: 880-12274-5 MSD
Matrix: Solid
Analysis Batch: 21619

Client Sample ID: S-2 (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	3860		5050	8797		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-21596/1-A
Matrix: Solid
Analysis Batch: 21657

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			03/15/22 20:12	1

Lab Sample ID: LCS 880-21596/2-A
Matrix: Solid
Analysis Batch: 21657

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			250	238.7		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-21596/3-A
Matrix: Solid
Analysis Batch: 21657

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	238.9		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-12274-15 MS
Matrix: Solid
Analysis Batch: 21657

Client Sample ID: S-5 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8940		2490	11590		mg/Kg		107	90 - 110

Lab Sample ID: 880-12274-15 MSD
Matrix: Solid
Analysis Batch: 21657

Client Sample ID: S-5 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8940		2490	11570		mg/Kg		106	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-12274-25 MS
Matrix: Solid
Analysis Batch: 21657

Client Sample ID: H-5 (0-0.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<5.00	U	250	241.4		mg/Kg		95	90 - 110

Lab Sample ID: 880-12274-25 MSD
Matrix: Solid
Analysis Batch: 21657

Client Sample ID: H-5 (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	<5.00	U	250	235.5		mg/Kg		93	90 - 110	2	20

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 21012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21012/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 21146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21146/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21146/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21146/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12263-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-12263-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 21288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-1	S-1 (0-1')	Total/NA	Solid	5035	
880-12274-2	S-1 (1.5')	Total/NA	Solid	5035	
880-12274-3	S-1 (2.5')	Total/NA	Solid	5035	
880-12274-4	S-1 (3.5')	Total/NA	Solid	5035	
880-12274-5	S-2 (0-1')	Total/NA	Solid	5035	
880-12274-6	S-2 (1.5')	Total/NA	Solid	5035	
880-12274-7	S-3 (0-1')	Total/NA	Solid	5035	
880-12274-8	S-3 (1.5')	Total/NA	Solid	5035	
880-12274-9	S-3 (2.5')	Total/NA	Solid	5035	
880-12274-10	S-3 (3.5')	Total/NA	Solid	5035	
MB 880-21288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12274-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-12274-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 21289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-21	H-1 (0-0.5')	Total/NA	Solid	5035	
880-12274-22	H-2 (0-0.5')	Total/NA	Solid	5035	
880-12274-23	H-3 (0-0.5')	Total/NA	Solid	5035	
880-12274-24	H-4 (0-0.5')	Total/NA	Solid	5035	
880-12274-25	H-5 (0-0.5')	Total/NA	Solid	5035	
880-12274-26	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-21289/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21289/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21289/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12274-21 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-12274-21 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Prep Batch: 21365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21365/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 21366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-1	S-1 (0-1')	Total/NA	Solid	8021B	21288
880-12274-2	S-1 (1.5')	Total/NA	Solid	8021B	21288
880-12274-3	S-1 (2.5')	Total/NA	Solid	8021B	21288

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 21366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-4	S-1 (3.5')	Total/NA	Solid	8021B	21288
880-12274-5	S-2 (0-1')	Total/NA	Solid	8021B	21288
880-12274-6	S-2 (1.5')	Total/NA	Solid	8021B	21288
880-12274-7	S-3 (0-1')	Total/NA	Solid	8021B	21288
880-12274-8	S-3 (1.5')	Total/NA	Solid	8021B	21288
880-12274-9	S-3 (2.5')	Total/NA	Solid	8021B	21288
880-12274-10	S-3 (3.5')	Total/NA	Solid	8021B	21288
MB 880-21288/5-A	Method Blank	Total/NA	Solid	8021B	21288
MB 880-21365/5-A	Method Blank	Total/NA	Solid	8021B	21365
LCS 880-21288/1-A	Lab Control Sample	Total/NA	Solid	8021B	21288
LCSD 880-21288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21288
880-12274-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	21288
880-12274-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	21288

Analysis Batch: 21440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21012/5-A	Method Blank	Total/NA	Solid	8021B	21012
MB 880-21146/5-A	Method Blank	Total/NA	Solid	8021B	21146
LCS 880-21146/1-A	Lab Control Sample	Total/NA	Solid	8021B	21146
LCSD 880-21146/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21146
880-12263-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	21146
880-12263-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21146

Analysis Batch: 21441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-21	H-1 (0-0.5')	Total/NA	Solid	8021B	21289
880-12274-22	H-2 (0-0.5')	Total/NA	Solid	8021B	21289
880-12274-23	H-3 (0-0.5')	Total/NA	Solid	8021B	21289
880-12274-24	H-4 (0-0.5')	Total/NA	Solid	8021B	21289
880-12274-25	H-5 (0-0.5')	Total/NA	Solid	8021B	21289
880-12274-26	H-6 (0-0.5')	Total/NA	Solid	8021B	21289
MB 880-21289/5-A	Method Blank	Total/NA	Solid	8021B	21289
LCS 880-21289/1-A	Lab Control Sample	Total/NA	Solid	8021B	21289
LCSD 880-21289/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21289
880-12274-21 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	21289
880-12274-21 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	21289

Prep Batch: 21455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-11	S-4 (0-1')	Total/NA	Solid	5035	
880-12274-12	S-4 (1.5')	Total/NA	Solid	5035	
880-12274-13	S-4 (2.5')	Total/NA	Solid	5035	
880-12274-14	S-5 (0-1')	Total/NA	Solid	5035	
880-12274-15	S-5 (1.5')	Total/NA	Solid	5035	
880-12274-16	S-6 (0-1')	Total/NA	Solid	5035	
880-12274-17	S-6 (1.5')	Total/NA	Solid	5035	
880-12274-18	S-7 (0-1')	Total/NA	Solid	5035	
880-12274-19	S-7 (1.5')	Total/NA	Solid	5035	
880-12274-20	S-7 (2.5')	Total/NA	Solid	5035	
MB 880-21455/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21455/1-A	Lab Control Sample	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

GC VOA (Continued)

Prep Batch: 21455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-21455/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12274-11 MS	S-4 (0-1')	Total/NA	Solid	5035	
880-12274-11 MSD	S-4 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 21464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-11	S-4 (0-1')	Total/NA	Solid	8021B	21455
880-12274-12	S-4 (1.5')	Total/NA	Solid	8021B	21455
880-12274-13	S-4 (2.5')	Total/NA	Solid	8021B	21455
880-12274-14	S-5 (0-1')	Total/NA	Solid	8021B	21455
880-12274-15	S-5 (1.5')	Total/NA	Solid	8021B	21455
880-12274-16	S-6 (0-1')	Total/NA	Solid	8021B	21455
880-12274-17	S-6 (1.5')	Total/NA	Solid	8021B	21455
880-12274-18	S-7 (0-1')	Total/NA	Solid	8021B	21455
880-12274-19	S-7 (1.5')	Total/NA	Solid	8021B	21455
880-12274-20	S-7 (2.5')	Total/NA	Solid	8021B	21455
MB 880-21455/5-A	Method Blank	Total/NA	Solid	8021B	21455
LCS 880-21455/1-A	Lab Control Sample	Total/NA	Solid	8021B	21455
LCSD 880-21455/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21455
880-12274-11 MS	S-4 (0-1')	Total/NA	Solid	8021B	21455
880-12274-11 MSD	S-4 (0-1')	Total/NA	Solid	8021B	21455

Analysis Batch: 21548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-12274-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-12274-3	S-1 (2.5')	Total/NA	Solid	Total BTEX	
880-12274-4	S-1 (3.5')	Total/NA	Solid	Total BTEX	
880-12274-5	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-12274-6	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-12274-7	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-12274-8	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-12274-9	S-3 (2.5')	Total/NA	Solid	Total BTEX	
880-12274-10	S-3 (3.5')	Total/NA	Solid	Total BTEX	
880-12274-11	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-12274-12	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-12274-13	S-4 (2.5')	Total/NA	Solid	Total BTEX	
880-12274-14	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-12274-15	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-12274-16	S-6 (0-1')	Total/NA	Solid	Total BTEX	
880-12274-17	S-6 (1.5')	Total/NA	Solid	Total BTEX	
880-12274-18	S-7 (0-1')	Total/NA	Solid	Total BTEX	
880-12274-19	S-7 (1.5')	Total/NA	Solid	Total BTEX	
880-12274-20	S-7 (2.5')	Total/NA	Solid	Total BTEX	
880-12274-21	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-12274-22	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-12274-23	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-12274-24	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-12274-25	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-12274-26	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

GC Semi VOA

Prep Batch: 21324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-12274-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-12274-3	S-1 (2.5')	Total/NA	Solid	8015NM Prep	
880-12274-4	S-1 (3.5')	Total/NA	Solid	8015NM Prep	
880-12274-5	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-12274-6	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-12274-7	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-12274-8	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-12274-9	S-3 (2.5')	Total/NA	Solid	8015NM Prep	
880-12274-10	S-3 (3.5')	Total/NA	Solid	8015NM Prep	
880-12274-11	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-12274-12	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-12274-13	S-4 (2.5')	Total/NA	Solid	8015NM Prep	
880-12274-14	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-12274-15	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-12274-16	S-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-12274-17	S-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-12274-18	S-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-12274-19	S-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-12274-20	S-7 (2.5')	Total/NA	Solid	8015NM Prep	
MB 880-21324/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21324/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12274-1 MS	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-12274-1 MSD	S-1 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 21325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-21	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-12274-22	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-12274-23	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-12274-24	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-12274-25	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-12274-26	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-21325/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21325/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12272-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12272-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-1	S-1 (0-1')	Total/NA	Solid	8015B NM	21324
880-12274-2	S-1 (1.5')	Total/NA	Solid	8015B NM	21324
880-12274-3	S-1 (2.5')	Total/NA	Solid	8015B NM	21324
880-12274-4	S-1 (3.5')	Total/NA	Solid	8015B NM	21324
880-12274-5	S-2 (0-1')	Total/NA	Solid	8015B NM	21324
880-12274-6	S-2 (1.5')	Total/NA	Solid	8015B NM	21324
880-12274-7	S-3 (0-1')	Total/NA	Solid	8015B NM	21324
880-12274-8	S-3 (1.5')	Total/NA	Solid	8015B NM	21324
880-12274-9	S-3 (2.5')	Total/NA	Solid	8015B NM	21324

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 21446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-10	S-3 (3.5')	Total/NA	Solid	8015B NM	21324
880-12274-11	S-4 (0-1')	Total/NA	Solid	8015B NM	21324
880-12274-12	S-4 (1.5')	Total/NA	Solid	8015B NM	21324
880-12274-13	S-4 (2.5')	Total/NA	Solid	8015B NM	21324
880-12274-14	S-5 (0-1')	Total/NA	Solid	8015B NM	21324
880-12274-15	S-5 (1.5')	Total/NA	Solid	8015B NM	21324
880-12274-16	S-6 (0-1')	Total/NA	Solid	8015B NM	21324
880-12274-17	S-6 (1.5')	Total/NA	Solid	8015B NM	21324
880-12274-18	S-7 (0-1')	Total/NA	Solid	8015B NM	21324
880-12274-19	S-7 (1.5')	Total/NA	Solid	8015B NM	21324
880-12274-20	S-7 (2.5')	Total/NA	Solid	8015B NM	21324
880-12274-21	H-1 (0-0.5')	Total/NA	Solid	8015B NM	21325
880-12274-22	H-2 (0-0.5')	Total/NA	Solid	8015B NM	21325
880-12274-23	H-3 (0-0.5')	Total/NA	Solid	8015B NM	21325
880-12274-24	H-4 (0-0.5')	Total/NA	Solid	8015B NM	21325
880-12274-25	H-5 (0-0.5')	Total/NA	Solid	8015B NM	21325
880-12274-26	H-6 (0-0.5')	Total/NA	Solid	8015B NM	21325
MB 880-21324/1-A	Method Blank	Total/NA	Solid	8015B NM	21324
MB 880-21325/1-A	Method Blank	Total/NA	Solid	8015B NM	21325
LCS 880-21324/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21324
LCS 880-21325/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21325
LCSD 880-21324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21324
LCSD 880-21325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21325
880-12272-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	21325
880-12272-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21325
880-12274-1 MS	S-1 (0-1')	Total/NA	Solid	8015B NM	21324
880-12274-1 MSD	S-1 (0-1')	Total/NA	Solid	8015B NM	21324

Analysis Batch: 21478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-12274-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-12274-3	S-1 (2.5')	Total/NA	Solid	8015 NM	
880-12274-4	S-1 (3.5')	Total/NA	Solid	8015 NM	
880-12274-5	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-12274-6	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-12274-7	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-12274-8	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-12274-9	S-3 (2.5')	Total/NA	Solid	8015 NM	
880-12274-10	S-3 (3.5')	Total/NA	Solid	8015 NM	
880-12274-11	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-12274-12	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-12274-13	S-4 (2.5')	Total/NA	Solid	8015 NM	
880-12274-14	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-12274-15	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-12274-16	S-6 (0-1')	Total/NA	Solid	8015 NM	
880-12274-17	S-6 (1.5')	Total/NA	Solid	8015 NM	
880-12274-18	S-7 (0-1')	Total/NA	Solid	8015 NM	
880-12274-19	S-7 (1.5')	Total/NA	Solid	8015 NM	
880-12274-20	S-7 (2.5')	Total/NA	Solid	8015 NM	
880-12274-21	H-1 (0-0.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 21478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-22	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-12274-23	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-12274-24	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-12274-25	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-12274-26	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 21306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-12274-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-12274-3	S-1 (2.5')	Soluble	Solid	DI Leach	
880-12274-4	S-1 (3.5')	Soluble	Solid	DI Leach	
880-12274-5	S-2 (0-1')	Soluble	Solid	DI Leach	
880-12274-6	S-2 (1.5')	Soluble	Solid	DI Leach	
880-12274-7	S-3 (0-1')	Soluble	Solid	DI Leach	
880-12274-8	S-3 (1.5')	Soluble	Solid	DI Leach	
880-12274-9	S-3 (2.5')	Soluble	Solid	DI Leach	
880-12274-10	S-3 (3.5')	Soluble	Solid	DI Leach	
880-12274-11	S-4 (0-1')	Soluble	Solid	DI Leach	
880-12274-12	S-4 (1.5')	Soluble	Solid	DI Leach	
880-12274-13	S-4 (2.5')	Soluble	Solid	DI Leach	
880-12274-14	S-5 (0-1')	Soluble	Solid	DI Leach	
MB 880-21306/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21306/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21306/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12274-5 MS	S-2 (0-1')	Soluble	Solid	DI Leach	
880-12274-5 MSD	S-2 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 21596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-15	S-5 (1.5')	Soluble	Solid	DI Leach	
880-12274-16	S-6 (0-1')	Soluble	Solid	DI Leach	
880-12274-17	S-6 (1.5')	Soluble	Solid	DI Leach	
880-12274-18	S-7 (0-1')	Soluble	Solid	DI Leach	
880-12274-19	S-7 (1.5')	Soluble	Solid	DI Leach	
880-12274-20	S-7 (2.5')	Soluble	Solid	DI Leach	
880-12274-21	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-12274-22	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-12274-23	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-12274-24	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-12274-25	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-12274-26	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-21596/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21596/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21596/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12274-15 MS	S-5 (1.5')	Soluble	Solid	DI Leach	
880-12274-15 MSD	S-5 (1.5')	Soluble	Solid	DI Leach	
880-12274-25 MS	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-12274-25 MSD	H-5 (0-0.5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

HPLC/IC

Analysis Batch: 21619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-1	S-1 (0-1')	Soluble	Solid	300.0	21306
880-12274-2	S-1 (1.5')	Soluble	Solid	300.0	21306
880-12274-3	S-1 (2.5')	Soluble	Solid	300.0	21306
880-12274-4	S-1 (3.5')	Soluble	Solid	300.0	21306
880-12274-5	S-2 (0-1')	Soluble	Solid	300.0	21306
880-12274-6	S-2 (1.5')	Soluble	Solid	300.0	21306
880-12274-7	S-3 (0-1')	Soluble	Solid	300.0	21306
880-12274-8	S-3 (1.5')	Soluble	Solid	300.0	21306
880-12274-9	S-3 (2.5')	Soluble	Solid	300.0	21306
880-12274-10	S-3 (3.5')	Soluble	Solid	300.0	21306
880-12274-11	S-4 (0-1')	Soluble	Solid	300.0	21306
880-12274-12	S-4 (1.5')	Soluble	Solid	300.0	21306
880-12274-13	S-4 (2.5')	Soluble	Solid	300.0	21306
880-12274-14	S-5 (0-1')	Soluble	Solid	300.0	21306
MB 880-21306/1-A	Method Blank	Soluble	Solid	300.0	21306
LCS 880-21306/2-A	Lab Control Sample	Soluble	Solid	300.0	21306
LCSD 880-21306/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21306
880-12274-5 MS	S-2 (0-1')	Soluble	Solid	300.0	21306
880-12274-5 MSD	S-2 (0-1')	Soluble	Solid	300.0	21306

Analysis Batch: 21657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12274-15	S-5 (1.5')	Soluble	Solid	300.0	21596
880-12274-16	S-6 (0-1')	Soluble	Solid	300.0	21596
880-12274-17	S-6 (1.5')	Soluble	Solid	300.0	21596
880-12274-18	S-7 (0-1')	Soluble	Solid	300.0	21596
880-12274-19	S-7 (1.5')	Soluble	Solid	300.0	21596
880-12274-20	S-7 (2.5')	Soluble	Solid	300.0	21596
880-12274-21	H-1 (0-0.5')	Soluble	Solid	300.0	21596
880-12274-22	H-2 (0-0.5')	Soluble	Solid	300.0	21596
880-12274-23	H-3 (0-0.5')	Soluble	Solid	300.0	21596
880-12274-24	H-4 (0-0.5')	Soluble	Solid	300.0	21596
880-12274-25	H-5 (0-0.5')	Soluble	Solid	300.0	21596
880-12274-26	H-6 (0-0.5')	Soluble	Solid	300.0	21596
MB 880-21596/1-A	Method Blank	Soluble	Solid	300.0	21596
LCS 880-21596/2-A	Lab Control Sample	Soluble	Solid	300.0	21596
LCSD 880-21596/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21596
880-12274-15 MS	S-5 (1.5')	Soluble	Solid	300.0	21596
880-12274-15 MSD	S-5 (1.5')	Soluble	Solid	300.0	21596
880-12274-25 MS	H-5 (0-0.5')	Soluble	Solid	300.0	21596
880-12274-25 MSD	H-5 (0-0.5')	Soluble	Solid	300.0	21596

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-1
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 00:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 13:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 13:33	CH	XEN MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-12274-2
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 01:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 14:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 13:41	CH	XEN MID

Client Sample ID: S-1 (2.5')

Lab Sample ID: 880-12274-3
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 01:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 14:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		10			21619	03/16/22 13:50	CH	XEN MID

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-12274-4
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 01:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-1 (3.5')

Lab Sample ID: 880-12274-4
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 15:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		10			21619	03/16/22 13:59	CH	XEN MID

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

Lab Sample ID: 880-12274-5
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 02:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 15:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 14:08	CH	XEN MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-12274-6
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 02:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 15:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 14:35	CH	XEN MID

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

Lab Sample ID: 880-12274-7
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 02:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 16:15	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-7
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 14:43	CH	XEN MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-12274-8
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 03:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 16:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 15:10	CH	XEN MID

Client Sample ID: S-3 (2.5')

Lab Sample ID: 880-12274-9
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 03:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 16:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 15:19	CH	XEN MID

Client Sample ID: S-3 (3.5')

Lab Sample ID: 880-12274-10
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21288	03/10/22 11:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21366	03/12/22 03:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 17:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 15:28	CH	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-11
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 11:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 18:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 15:36	CH	XEN MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-12274-12
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 12:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 18:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 15:45	CH	XEN MID

Client Sample ID: S-4 (2.5')

Lab Sample ID: 880-12274-13
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 12:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 15:54	CH	XEN MID

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

Lab Sample ID: 880-12274-14
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 12:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-12274-14
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

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			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 19:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	21306	03/10/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		20			21619	03/16/22 16:03	CH	XEN MID

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-12274-15
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 13:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 19:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		10			21657	03/16/22 17:40	CH	XEN MID

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

Lab Sample ID: 880-12274-16
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

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	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 13:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 19:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		20			21657	03/15/22 21:06	CH	XEN MID

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-12274-17
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

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	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 13:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 20:04	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: S-6 (1.5')

Lab Sample ID: 880-12274-17
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		20			21657	03/15/22 21:14	CH	XEN MID

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

Lab Sample ID: 880-12274-18
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 14:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 20:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		10			21657	03/15/22 21:23	CH	XEN MID

Client Sample ID: S-7 (1.5')

Lab Sample ID: 880-12274-19
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 14:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 20:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		20			21657	03/15/22 21:32	CH	XEN MID

Client Sample ID: S-7 (2.5')

Lab Sample ID: 880-12274-20
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21455	03/13/22 12:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21464	03/14/22 14:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	21324	03/10/22 13:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/13/22 21:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		5			21657	03/15/22 21:59	CH	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-12274-21
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

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	21289	03/10/22 11:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21441	03/12/22 19:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21325	03/10/22 14:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/14/22 04:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		1			21657	03/15/22 22:08	CH	XEN MID

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-12274-22
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

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	21289	03/10/22 11:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21441	03/12/22 19:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21325	03/10/22 14:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/14/22 04:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		1			21657	03/15/22 22:17	CH	XEN MID

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-12274-23
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

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	21289	03/10/22 11:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21441	03/12/22 19:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21325	03/10/22 14:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/14/22 04:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		1			21657	03/15/22 22:25	CH	XEN MID

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-12274-24
Date Collected: 03/09/22 00:00
Matrix: Solid
Date Received: 03/10/22 10:15

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	21289	03/10/22 11:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21441	03/12/22 20:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-12274-24
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21325	03/10/22 14:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/14/22 05:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		1			21657	03/15/22 22:34	CH	XEN MID

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-12274-25
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21289	03/10/22 11:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21441	03/12/22 20:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21325	03/10/22 14:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/14/22 05:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		1			21657	03/15/22 22:43	CH	XEN MID

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-12274-26
Matrix: Solid
Date Collected: 03/09/22 00:00
Date Received: 03/10/22 10:15

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	21289	03/10/22 11:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21441	03/12/22 20:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21548	03/14/22 14:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21478	03/14/22 09:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21325	03/10/22 14:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21446	03/14/22 05:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21596	03/15/22 08:22	CH	XEN MID
Soluble	Analysis	300.0		1			21657	03/15/22 23:10	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	OII Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-12274-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12274-1	S-1 (0-1')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-2	S-1 (1.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-3	S-1 (2.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-4	S-1 (3.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-5	S-2 (0-1')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-6	S-2 (1.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-7	S-3 (0-1')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-8	S-3 (1.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-9	S-3 (2.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-10	S-3 (3.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-11	S-4 (0-1')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-12	S-4 (1.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-13	S-4 (2.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-14	S-5 (0-1')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-15	S-5 (1.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-16	S-6 (0-1')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-17	S-6 (1.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-18	S-7 (0-1')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-19	S-7 (1.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-20	S-7 (2.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-21	H-1 (0-0.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-22	H-2 (0-0.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-23	H-3 (0-0.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-24	H-4 (0-0.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-25	H-5 (0-0.5')	Solid	03/09/22 00:00	03/10/22 10:15
880-12274-26	H-6 (0-0.5')	Solid	03/09/22 00:00	03/10/22 10:15

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3/16/2022

Work Order No: 12274

Page 1 of 3

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name.	COG
Address	310 West Wall Ste 415	Address.	15 W Loving Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving NM 88256
Phone	432-813-6823	Email	jacquiharris@conocophillips com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ uperfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name.	Copperhead Fee A 3H (02 08 22)	Turn Around	
Project Number	1023	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date	72Hrs
Sampler's Name	CRM	TAT starts the day received by the lab, if received by 4 30pm	
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	-.1
Sample Custody Seals	Yes No (N/A)	Temperature Reading	0.7
Total Containers		Corrected Temperature	0

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	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	HOLD	Sample Comments
S-1 (0-1')	3/9/2022		X		G	1		X	X	X		
S-1 (1 5')	3/9/2022		X		G	1		X	X	X		
S-1 (2 5')	3/9/2022		X		G	1		X	X	X		
S-1 (3 5')	3/9/2022		X		G	1		X	X	X		
S-2 (0-1')	3/9/2022		X		G	1		X	X	X		
S-2 (1 5')	3/9/2022		X		G	1		X	X	X		
S-3 (0-1')	3/9/2022		X		G	1		X	X	X		
S-3 (1 5')	3/9/2022		X		G	1		X	X	X		
S-3 (2 5')	3/9/2022		X		G	1		X	X	X		
S-3 (3 5')	3/9/2022		X		G	1		X	X	X		

880-12274 Chain of Custody

Additoinal Comments:

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		3/10/22 10:15	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

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Received by OCD: 3/21/2023 10:12:02 AM

Released to Imaging: 4/26/2023 10:12:53 AM

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Work Order No: 12274

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Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name.	Carmona Resources	Company Name	COG
Address	310 West Wall Ste 415	Address	15 W Loving Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823	Email	jacquiharris@conocophillips.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Copperhead Fee A 3H (02 08 22)	**Turn Around**	
Project Number	1023	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date	72Hrs
Sampler's Name.	CRM	TAT starts the day received by the lab if received by 4 30pm	
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	-.1
Sample Custody Seals	Yes No N/A	Temperature Reading	-.1
Total Containers		Corrected Temperature	0

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	HOLD	Sample Comments
S-4 (0-1')	3/9/2022		X		G	1		X	X	X		
S-4 (1 5')	3/9/2022		X		G	1		X	X	X		
S-4 (2 5')	3/9/2022		X		G	1		X	X	X		
S-5 (0-1')	3/9/2022		X		G	1		X	X	X		
S-5 (1 5')	3/9/2022		X		G	1		X	X	X		
S-6 (0-1')	3/9/2022		X		G	1		X	X	X		
S-6 (1 5')	3/9/2022		X		G	1		X	X	X		
S-7 (0-1')	3/9/2022		X		G	1		X	X	X		
S-7 (1 5')	3/9/2022		X		G	1		X	X	X		
S-7 (2 5')	3/9/2022		X		G	1		X	X	X		

Additoinal Comments:

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Conner Moehring		3/10/22 10:15	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Received by OCD: 3/21/2023 10:12:02 AM

Released to Imaging: 4/26/2023 10:12:53 AM

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3/16/2022

Work Order No: 12274

Page 3 of 3

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address.	310 West Wall Ste 415	Address	15 W Loving Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823	Email	jacquiharris@conocophillips.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Copperhead Fee A 3H (02 08 22)	Turn Around	
Project Number	1023	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date	72Hrs
Sampler's Name.	CRM	TAT starts the day received by the lab if received by 4 30pm	
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	-.1
Sample Custody Seals.	Yes No N/A	Temperature Reading	6.1
Total Containers.		Corrected Temperature	6.0

ANALYSIS REQUEST

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	HOLD	Sample Comments
H-1 (0-0 5')	3/9/2022		X		G	1		X	X	X		
H-2 (0-0 5')	3/9/2022		X		G	1		X	X	X		
H-3 (0-0 5')	3/9/2022		X		G	1		X	X	X		
H-4 (0-0 5')	3/9/2022		X		G	1		X	X	X		
H-5 (0-0 5')	3/9/2022		X		G	1		X	X	X		
H-6 (0-0 5')	3/9/2022		X		G	1		X	X	X		

Additoinal Comments:

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		3/10/22 10:15	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

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Received by OCD: 3/21/2023 10:12:02 AM

Released to Imaging: 4/26/2023 10:12:53 AM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-12274-1
SDG Number: Eddy Co, NM

Login Number: 12274
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.	N/A	No time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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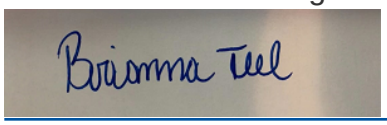
ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14143-1
Laboratory Sample Delivery Group: Eddy Co,NM
Client Project/Site: Copperhead Fee A 3H (02.08.22)

For:
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Attn: Conner Moehring



Authorized for release by:
5/3/2022 9:53:19 AM
Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

Designee for

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

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Laboratory Job ID: 880-14143-1
SDG: Eddy Co,NM

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QC Sample Results 41
QC Association Summary 52
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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Job ID: 880-14143-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-14143-1

Receipt
The samples were received on 4/27/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

Receipt Exceptions
The following sample was listed on the Chain of Custody (COC); however, no sample was received: BH-4 (14-15') (880-14143-24).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24409 and analytical batch 880-24589 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24423 and analytical batch 880-24569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery 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
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 for preparation batch 880-24332 and analytical batch 880-24518 were outside control limits. Incorrect spike amount is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Released to Imaging: 4/26/2023 10:12:53 AM

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-1
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- F1	0.00201		mg/Kg		04/28/22 11:34	05/02/22 04:00	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 04:00	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 04:00	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 04:00	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 04:00	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/28/22 11:34*	*05/02/22 04:00*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/28/22 11:34*	*05/02/22 04:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 12:35	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*04/27/22 15:01*	*05/01/22 12:35*	*1*
o-Terphenyl	*95*		*70 - 130*	*04/27/22 15:01*	*05/01/22 12:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**297**		4.98		mg/Kg			04/29/22 14:17	1

Client Sample ID: BH-1 (2-3')

Lab Sample ID: 880-14143-2
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 04:20	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 04:20	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 04:20	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		04/28/22 11:34	05/02/22 04:20	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 04:20	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		04/28/22 11:34	05/02/22 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/28/22 11:34*	*05/02/22 04:20*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/28/22 11:34*	*05/02/22 04:20*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-1 (2-3')

Lab Sample ID: 880-14143-2
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 13:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 13:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/27/22 15:01*	*05/01/22 13:38*	*1*
o-Terphenyl	*101*		*70 - 130*	*04/27/22 15:01*	*05/01/22 13:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**685**		4.95		mg/Kg			04/29/22 14:45	1

Client Sample ID: BH-1 (4-5')

Lab Sample ID: 880-14143-3
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 04:40	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 04:40	1
Ethylbenzene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 04:40	1
m-Xylene & p-Xylene	<0.00403	U *-	0.00403		mg/Kg		04/28/22 11:34	05/02/22 04:40	1
o-Xylene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 04:40	1
Xylenes, Total	<0.00403	U *-	0.00403		mg/Kg		04/28/22 11:34	05/02/22 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/28/22 11:34*	*05/02/22 04:40*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/28/22 11:34*	*05/02/22 04:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 14:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 14:00	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-1 (4-5')

Lab Sample ID: 880-14143-3
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/27/22 15:01	05/01/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/27/22 15:01*	*05/01/22 14:00*	*1*
o-Terphenyl	*110*		*70 - 130*	*04/27/22 15:01*	*05/01/22 14:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1240**		4.99		mg/Kg			04/29/22 14:54	1

Client Sample ID: BH-1 (6-7')

Lab Sample ID: 880-14143-4
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 05:01	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 05:01	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 05:01	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 05:01	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 05:01	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/28/22 11:34*	*05/02/22 05:01*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/28/22 11:34*	*05/02/22 05:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 14:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 14:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*04/27/22 15:01*	*05/01/22 14:21*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/27/22 15:01*	*05/01/22 14:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**661**		5.00		mg/Kg			04/29/22 15:03	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-1 (9-10')

Lab Sample ID: 880-14143-5
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 05:21	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 05:21	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 05:21	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		04/28/22 11:34	05/02/22 05:21	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 05:21	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		04/28/22 11:34	05/02/22 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/28/22 11:34*	*05/02/22 05:21*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/28/22 11:34*	*05/02/22 05:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 14:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/27/22 15:01*	*05/01/22 14:43*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/27/22 15:01*	*05/01/22 14:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**262**		4.97		mg/Kg			04/29/22 15:13	1

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

Lab Sample ID: 880-14143-6
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 05:42	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 05:42	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 05:42	1
m-Xylene & p-Xylene	<0.00400	U *-	0.00400		mg/Kg		04/28/22 11:34	05/02/22 05:42	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 05:42	1
Xylenes, Total	<0.00400	U *-	0.00400		mg/Kg		04/28/22 11:34	05/02/22 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*04/28/22 11:34*	*05/02/22 05:42*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/28/22 11:34*	*05/02/22 05:42*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-6
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 15:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 15:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*04/27/22 15:01*	*05/01/22 15:04*	*1*
o-Terphenyl	*112*		*70 - 130*	*04/27/22 15:01*	*05/01/22 15:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11200**		50.0		mg/Kg			05/01/22 15:26	10

Client Sample ID: BH-2 (2-3')

Lab Sample ID: 880-14143-7
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		04/28/22 11:34	05/02/22 06:02	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		04/28/22 11:34	05/02/22 06:02	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		04/28/22 11:34	05/02/22 06:02	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		04/28/22 11:34	05/02/22 06:02	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		04/28/22 11:34	05/02/22 06:02	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		04/28/22 11:34	05/02/22 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/28/22 11:34*	*05/02/22 06:02*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/28/22 11:34*	*05/02/22 06:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 15:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 15:25	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-2 (2-3')

Lab Sample ID: 880-14143-7
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/27/22 15:01	05/01/22 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*04/27/22 15:01*	*05/01/22 15:25*	*1*
o-Terphenyl	*102*		*70 - 130*	*04/27/22 15:01*	*05/01/22 15:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7680**		99.4		mg/Kg			04/30/22 19:48	20

Client Sample ID: BH-2 (4-5')

Lab Sample ID: 880-14143-8
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *-	0.00198		mg/Kg		04/28/22 11:34	05/02/22 06:22	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		04/28/22 11:34	05/02/22 06:22	1
Ethylbenzene	<0.00198	U *-	0.00198		mg/Kg		04/28/22 11:34	05/02/22 06:22	1
m-Xylene & p-Xylene	<0.00397	U *-	0.00397		mg/Kg		04/28/22 11:34	05/02/22 06:22	1
o-Xylene	<0.00198	U *-	0.00198		mg/Kg		04/28/22 11:34	05/02/22 06:22	1
Xylenes, Total	<0.00397	U *-	0.00397		mg/Kg		04/28/22 11:34	05/02/22 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/28/22 11:34*	*05/02/22 06:22*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/28/22 11:34*	*05/02/22 06:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 15:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 15:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*04/27/22 15:01*	*05/01/22 15:47*	*1*
o-Terphenyl	*93*		*70 - 130*	*04/27/22 15:01*	*05/01/22 15:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4450**		49.8		mg/Kg			04/30/22 19:57	10

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-2 (6-7')

Lab Sample ID: 880-14143-9
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 06:43	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 06:43	1
Ethylbenzene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 06:43	1
m-Xylene & p-Xylene	<0.00404	U *-	0.00404		mg/Kg		04/28/22 11:34	05/02/22 06:43	1
o-Xylene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 06:43	1
Xylenes, Total	<0.00404	U *-	0.00404		mg/Kg		04/28/22 11:34	05/02/22 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/28/22 11:34*	*05/02/22 06:43*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/28/22 11:34*	*05/02/22 06:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 16:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 16:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*04/27/22 15:01*	*05/01/22 16:08*	*1*
o-Terphenyl	*109*		*70 - 130*	*04/27/22 15:01*	*05/01/22 16:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**344**		4.95		mg/Kg			04/29/22 16:08	1

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

Lab Sample ID: 880-14143-11
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 09:18	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 09:18	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 09:18	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 09:18	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 09:18	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/28/22 11:34*	*05/02/22 09:18*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/28/22 11:34*	*05/02/22 09:18*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-11
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 17:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 17:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*04/27/22 15:01*	*05/01/22 17:12*	*1*
o-Terphenyl	*115*		*70 - 130*	*04/27/22 15:01*	*05/01/22 17:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8280**		99.2		mg/Kg			04/29/22 16:18	20

Client Sample ID: BH-3 (2-3')

Lab Sample ID: 880-14143-12
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 09:38	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 09:38	1
Ethylbenzene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 09:38	1
m-Xylene & p-Xylene	<0.00403	U *-	0.00403		mg/Kg		04/28/22 11:34	05/02/22 09:38	1
o-Xylene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 09:38	1
Xylenes, Total	<0.00403	U *-	0.00403		mg/Kg		04/28/22 11:34	05/02/22 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*04/28/22 11:34*	*05/02/22 09:38*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/28/22 11:34*	*05/02/22 09:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 17:34	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-3 (2-3')

Lab Sample ID: 880-14143-12
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/27/22 15:01	05/01/22 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*04/27/22 15:01*	*05/01/22 17:34*	*1*
o-Terphenyl	*105*		*70 - 130*	*04/27/22 15:01*	*05/01/22 17:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7620**	**F1**	99.8		mg/Kg			04/29/22 16:28	20

Client Sample ID: BH-3 (4-5')

Lab Sample ID: 880-14143-13
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 09:58	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 09:58	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 09:58	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		04/28/22 11:34	05/02/22 09:58	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 09:58	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		04/28/22 11:34	05/02/22 09:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/28/22 11:34*	*05/02/22 09:58*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/28/22 11:34*	*05/02/22 09:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 17:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 17:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*04/27/22 15:01*	*05/01/22 17:55*	*1*
o-Terphenyl	*104*		*70 - 130*	*04/27/22 15:01*	*05/01/22 17:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		49.8		mg/Kg			04/30/22 20:06	10

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-3 (6-7')

Lab Sample ID: 880-14143-14
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 10:19	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 10:19	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 10:19	1
m-Xylene & p-Xylene	<0.00401	U *-	0.00401		mg/Kg		04/28/22 11:34	05/02/22 10:19	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 10:19	1
Xylenes, Total	<0.00401	U *-	0.00401		mg/Kg		04/28/22 11:34	05/02/22 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/28/22 11:34*	*05/02/22 10:19*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/28/22 11:34*	*05/02/22 10:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 18:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 18:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*04/27/22 15:01*	*05/01/22 18:38*	*1*
o-Terphenyl	*121*		*70 - 130*	*04/27/22 15:01*	*05/01/22 18:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5050**		101		mg/Kg			04/29/22 17:06	20

Client Sample ID: BH-3 (9-10')

Lab Sample ID: 880-14143-15
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 10:39	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 10:39	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 10:39	1
m-Xylene & p-Xylene	<0.00400	U *-	0.00400		mg/Kg		04/28/22 11:34	05/02/22 10:39	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 10:39	1
Xylenes, Total	<0.00400	U *-	0.00400		mg/Kg		04/28/22 11:34	05/02/22 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/28/22 11:34*	*05/02/22 10:39*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/28/22 11:34*	*05/02/22 10:39*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-3 (9-10')

Lab Sample ID: 880-14143-15
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 18:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 18:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*04/27/22 15:01*	*05/01/22 18:59*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/27/22 15:01*	*05/01/22 18:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4000**		99.4		mg/Kg			04/29/22 17:35	20

Client Sample ID: BH-3 (12-13')

Lab Sample ID: 880-14143-16
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 11:00	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 11:00	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 11:00	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 11:00	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 11:00	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/28/22 11:34*	*05/02/22 11:00*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/28/22 11:34*	*05/02/22 11:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 19:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 19:21	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-3 (12-13')

Lab Sample ID: 880-14143-16
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/27/22 15:01	05/01/22 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*04/27/22 15:01*	*05/01/22 19:21*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/27/22 15:01*	*05/01/22 19:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		4.99		mg/Kg			04/29/22 17:44	1

Client Sample ID: BH-3 (14-15')

Lab Sample ID: 880-14143-17
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 11:20	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 11:20	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 11:20	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 11:20	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		04/28/22 11:34	05/02/22 11:20	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		04/28/22 11:34	05/02/22 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*04/28/22 11:34*	*05/02/22 11:20*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/28/22 11:34*	*05/02/22 11:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 19:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 19:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*04/27/22 15:01*	*05/01/22 19:42*	*1*
o-Terphenyl	*112*		*70 - 130*	*04/27/22 15:01*	*05/01/22 19:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.5**		4.98		mg/Kg			04/29/22 17:54	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-18
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		04/28/22 11:34	05/02/22 11:41	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		04/28/22 11:34	05/02/22 11:41	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		04/28/22 11:34	05/02/22 11:41	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		04/28/22 11:34	05/02/22 11:41	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		04/28/22 11:34	05/02/22 11:41	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		04/28/22 11:34	05/02/22 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/28/22 11:34*	*05/02/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/28/22 11:34*	*05/02/22 11:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 20:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*04/27/22 15:01*	*05/01/22 20:04*	*1*
o-Terphenyl	*100*		*70 - 130*	*04/27/22 15:01*	*05/01/22 20:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8680**		99.4		mg/Kg			04/29/22 18:03	20

Client Sample ID: BH-4 (2-3')

Lab Sample ID: 880-14143-19
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 12:01	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 12:01	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 12:01	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		04/28/22 11:34	05/02/22 12:01	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		04/28/22 11:34	05/02/22 12:01	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		04/28/22 11:34	05/02/22 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*04/28/22 11:34*	*05/02/22 12:01*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/28/22 11:34*	*05/02/22 12:01*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-4 (2-3')

Lab Sample ID: 880-14143-19
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 20:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 20:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:01	05/01/22 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*04/27/22 15:01*	*05/01/22 20:25*	*1*
o-Terphenyl	*91*		*70 - 130*	*04/27/22 15:01*	*05/01/22 20:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6530**		49.8		mg/Kg			04/29/22 18:13	10

Client Sample ID: BH-4 (4-5')

Lab Sample ID: 880-14143-20
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 12:22	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 12:22	1
Ethylbenzene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 12:22	1
m-Xylene & p-Xylene	<0.00404	U *-	0.00404		mg/Kg		04/28/22 11:34	05/02/22 12:22	1
o-Xylene	<0.00202	U *-	0.00202		mg/Kg		04/28/22 11:34	05/02/22 12:22	1
Xylenes, Total	<0.00404	U *-	0.00404		mg/Kg		04/28/22 11:34	05/02/22 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/28/22 11:34*	*05/02/22 12:22*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/28/22 11:34*	*05/02/22 12:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 20:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/27/22 15:01	05/01/22 20:47	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-4 (4-5')

Lab Sample ID: 880-14143-20
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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)	<49.8	U	49.8		mg/Kg		04/27/22 15:01	05/01/22 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/27/22 15:01*	*05/01/22 20:47*	*1*
o-Terphenyl	*100*		*70 - 130*	*04/27/22 15:01*	*05/01/22 20:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3700**		49.5		mg/Kg			04/29/22 18:22	10

Client Sample ID: BH-4 (6-7')

Lab Sample ID: 880-14143-21
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 17:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 17:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 17:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/28/22 11:39	05/02/22 17:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 17:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/28/22 11:39	05/02/22 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/28/22 11:39*	*05/02/22 17:32*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/28/22 11:39*	*05/02/22 17:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/01/22 22:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/01/22 22:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/01/22 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*04/27/22 15:06*	*05/01/22 22:33*	*1*
o-Terphenyl	*128*		*70 - 130*	*04/27/22 15:06*	*05/01/22 22:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1810**		49.9		mg/Kg			04/29/22 18:32	10

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-4 (9-10')

Lab Sample ID: 880-14143-22
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 17:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 17:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 17:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/28/22 11:39	05/02/22 17:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 17:52	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/28/22 11:39	05/02/22 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/28/22 11:39*	*05/02/22 17:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/28/22 11:39*	*05/02/22 17:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/01/22 23:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/01/22 23:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/01/22 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*04/27/22 15:06*	*05/01/22 23:38*	*1*
o-Terphenyl	*89*		*70 - 130*	*04/27/22 15:06*	*05/01/22 23:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**487**		4.96		mg/Kg			04/29/22 18:27	1

Client Sample ID: BH-4 (12-13')

Lab Sample ID: 880-14143-23
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 18:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 18:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 18:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/28/22 11:39	05/02/22 18:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 18:12	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/28/22 11:39	05/02/22 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*04/28/22 11:39*	*05/02/22 18:12*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/28/22 11:39*	*05/02/22 18:12*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-4 (12-13')

Lab Sample ID: 880-14143-23
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/01/22 23:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/01/22 23:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/01/22 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*04/27/22 15:06*	*05/01/22 23:59*	*1*
o-Terphenyl	*119*		*70 - 130*	*04/27/22 15:06*	*05/01/22 23:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**375**		5.00		mg/Kg			04/29/22 18:54	1

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

Lab Sample ID: 880-14143-25
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:39	05/02/22 18:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:39	05/02/22 18:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:39	05/02/22 18:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/28/22 11:39	05/02/22 18:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:39	05/02/22 18:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/22 11:39	05/02/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/28/22 11:39*	*05/02/22 18:33*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/28/22 11:39*	*05/02/22 18:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 00:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 00:40	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-25
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/27/22 15:06	05/02/22 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*04/27/22 15:06*	*05/02/22 00:40*	*1*
o-Terphenyl	*126*		*70 - 130*	*04/27/22 15:06*	*05/02/22 00:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17100**		250		mg/Kg			04/29/22 19:12	50

Client Sample ID: BH-5 (2-3')

Lab Sample ID: 880-14143-26
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/02/22 18:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/02/22 18:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/02/22 18:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/28/22 11:39	05/02/22 18:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/02/22 18:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/28/22 11:39	05/02/22 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/28/22 11:39*	*05/02/22 18:53*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/28/22 11:39*	*05/02/22 18:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 01:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 01:01	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*04/27/22 15:06*	*05/02/22 01:01*	*1*
o-Terphenyl	*129*		*70 - 130*	*04/27/22 15:06*	*05/02/22 01:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3040**		25.2		mg/Kg			05/02/22 00:29	5

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-5 (4-5')

Lab Sample ID: 880-14143-27
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 19:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 19:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 19:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/28/22 11:39	05/02/22 19:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 19:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/28/22 11:39	05/02/22 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/28/22 11:39*	*05/02/22 19:14*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/28/22 11:39*	*05/02/22 19:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 01:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/27/22 15:06*	*05/02/22 01:22*	*1*
o-Terphenyl	*125*		*70 - 130*	*04/27/22 15:06*	*05/02/22 01:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1620**		24.9		mg/Kg			04/29/22 19:47	5

Client Sample ID: BH-5 (6-7')

Lab Sample ID: 880-14143-28
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 19:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 19:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 19:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/28/22 11:39	05/02/22 19:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 19:34	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/28/22 11:39	05/02/22 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/28/22 11:39*	*05/02/22 19:34*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*04/28/22 11:39*	*05/02/22 19:34*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-5 (6-7')

Lab Sample ID: 880-14143-28
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 01:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 01:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/27/22 15:06*	*05/02/22 01:43*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*04/27/22 15:06*	*05/02/22 01:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1830**		49.5		mg/Kg			05/02/22 00:38	10

Client Sample ID: BH-5 (9-10')

Lab Sample ID: 880-14143-29
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 19:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 19:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 19:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/28/22 11:39	05/02/22 19:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 19:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/22 11:39	05/02/22 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/28/22 11:39*	*05/02/22 19:55*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/28/22 11:39*	*05/02/22 19:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 02:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 02:04	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-5 (9-10')

Lab Sample ID: 880-14143-29
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/27/22 15:06	05/02/22 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*04/27/22 15:06*	*05/02/22 02:04*	*1*
o-Terphenyl	*94*		*70 - 130*	*04/27/22 15:06*	*05/02/22 02:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1310**		5.00		mg/Kg			04/29/22 20:05	1

Client Sample ID: BH-5 (12-13')

Lab Sample ID: 880-14143-30
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 20:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 20:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 20:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/28/22 11:39	05/02/22 20:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 20:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/28/22 11:39	05/02/22 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*04/28/22 11:39*	*05/02/22 20:15*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/28/22 11:39*	*05/02/22 20:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 02:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 02:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*04/27/22 15:06*	*05/02/22 02:25*	*1*
o-Terphenyl	*105*		*70 - 130*	*04/27/22 15:06*	*05/02/22 02:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**689**		4.99		mg/Kg			04/29/22 20:14	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-5 (14-15')

Lab Sample ID: 880-14143-31
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 20:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 20:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 20:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/28/22 11:39	05/02/22 20:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 20:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/28/22 11:39	05/02/22 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*04/28/22 11:39*	*05/02/22 20:36*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/28/22 11:39*	*05/02/22 20:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 03:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 03:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*04/27/22 15:06*	*05/02/22 03:06*	*1*
o-Terphenyl	*113*		*70 - 130*	*04/27/22 15:06*	*05/02/22 03:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**479**		5.00		mg/Kg			04/29/22 20:22	1

Client Sample ID: BH-5 (19-20')

Lab Sample ID: 880-14143-32
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 22:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 22:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 22:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/28/22 11:39	05/02/22 22:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 22:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/28/22 11:39	05/02/22 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*04/28/22 11:39*	*05/02/22 22:26*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/28/22 11:39*	*05/02/22 22:26*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-5 (19-20')

Lab Sample ID: 880-14143-32
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 03:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 03:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*04/27/22 15:06*	*05/02/22 03:27*	*1*
o-Terphenyl	*106*		*70 - 130*	*04/27/22 15:06*	*05/02/22 03:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		50.0		mg/Kg			04/29/22 20:31	10

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

Lab Sample ID: 880-14143-34
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/02/22 22:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/02/22 22:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/02/22 22:46	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/28/22 11:39	05/02/22 22:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/02/22 22:46	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/28/22 11:39	05/02/22 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*04/28/22 11:39*	*05/02/22 22:46*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/28/22 11:39*	*05/02/22 22:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 04:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 04:09	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-34
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/27/22 15:06	05/02/22 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*04/27/22 15:06*	*05/02/22 04:09*	*1*
o-Terphenyl	*119*		*70 - 130*	*04/27/22 15:06*	*05/02/22 04:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8650**		50.4		mg/Kg			05/02/22 00:47	10

Client Sample ID: BH-6 (2-3')

Lab Sample ID: 880-14143-35
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 23:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 23:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 23:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/28/22 11:39	05/02/22 23:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:39	05/02/22 23:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/28/22 11:39	05/02/22 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/28/22 11:39*	*05/02/22 23:07*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/28/22 11:39*	*05/02/22 23:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 04:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/27/22 15:06	05/02/22 04:30	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/27/22 15:06	05/02/22 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*04/27/22 15:06*	*05/02/22 04:30*	*1*
o-Terphenyl	*105*		*70 - 130*	*04/27/22 15:06*	*05/02/22 04:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2980**		49.9		mg/Kg			05/02/22 00:56	10

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-6 (4-5')

Lab Sample ID: 880-14143-36
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 23:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 23:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 23:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/28/22 11:39	05/02/22 23:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/02/22 23:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/28/22 11:39	05/02/22 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/28/22 11:39*	*05/02/22 23:27*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/28/22 11:39*	*05/02/22 23:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 04:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 04:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*04/27/22 15:06*	*05/02/22 04:51*	*1*
o-Terphenyl	*124*		*70 - 130*	*04/27/22 15:06*	*05/02/22 04:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		24.9		mg/Kg			04/29/22 21:33	5

Client Sample ID: BH-6 (6-7')

Lab Sample ID: 880-14143-37
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:39	05/02/22 23:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:39	05/02/22 23:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:39	05/02/22 23:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/28/22 11:39	05/02/22 23:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:39	05/02/22 23:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/22 11:39	05/02/22 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/28/22 11:39*	*05/02/22 23:48*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/28/22 11:39*	*05/02/22 23:48*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-6 (6-7')

Lab Sample ID: 880-14143-37
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 05:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 05:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*04/27/22 15:06*	*05/02/22 05:12*	*1*
o-Terphenyl	*120*		*70 - 130*	*04/27/22 15:06*	*05/02/22 05:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1800**		50.0		mg/Kg			05/02/22 01:05	10

Client Sample ID: BH-6 (9-10')

Lab Sample ID: 880-14143-38
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/03/22 00:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/03/22 00:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/03/22 00:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/28/22 11:39	05/03/22 00:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/03/22 00:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/28/22 11:39	05/03/22 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*04/28/22 11:39*	*05/03/22 00:08*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/28/22 11:39*	*05/03/22 00:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 05:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 05:33	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-6 (9-10')

Lab Sample ID: 880-14143-38
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/27/22 15:06	05/02/22 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*04/27/22 15:06*	*05/02/22 05:33*	*1*
o-Terphenyl	*117*		*70 - 130*	*04/27/22 15:06*	*05/02/22 05:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1270**		4.99		mg/Kg			04/29/22 21:51	1

Client Sample ID: BH-6 (12-13')

Lab Sample ID: 880-14143-39
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/03/22 00:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/03/22 00:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/03/22 00:28	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/28/22 11:39	05/03/22 00:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/28/22 11:39	05/03/22 00:28	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/28/22 11:39	05/03/22 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/28/22 11:39*	*05/03/22 00:28*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/28/22 11:39*	*05/03/22 00:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 05:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 05:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*04/27/22 15:06*	*05/02/22 05:54*	*1*
o-Terphenyl	*114*		*70 - 130*	*04/27/22 15:06*	*05/02/22 05:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**658**		5.01		mg/Kg			04/29/22 22:00	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-6 (14-15')

Lab Sample ID: 880-14143-40
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/03/22 00:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/03/22 00:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/03/22 00:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/28/22 11:39	05/03/22 00:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/28/22 11:39	05/03/22 00:49	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/28/22 11:39	05/03/22 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*04/28/22 11:39*	*05/03/22 00:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/28/22 11:39*	*05/03/22 00:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 06:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/27/22 15:06	05/02/22 06:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/27/22 15:06	05/02/22 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*04/27/22 15:06*	*05/02/22 06:15*	*1*
o-Terphenyl	*102*		*70 - 130*	*04/27/22 15:06*	*05/02/22 06:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**465**		4.97		mg/Kg			04/29/22 22:09	1

Client Sample ID: BH-6 (19-20')

Lab Sample ID: 880-14143-41
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/28/22 11:42	05/01/22 16:14	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		04/28/22 11:42	05/01/22 16:14	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		04/28/22 11:42	05/01/22 16:14	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		04/28/22 11:42	05/01/22 16:14	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		04/28/22 11:42	05/01/22 16:14	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		04/28/22 11:42	05/01/22 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/28/22 11:42*	*05/01/22 16:14*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/28/22 11:42*	*05/01/22 16:14*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-6 (19-20')

Lab Sample ID: 880-14143-41
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 03:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 03:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 15:06	05/02/22 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*04/27/22 15:06*	*05/02/22 03:48*	*1*
o-Terphenyl	*94*		*70 - 130*	*04/27/22 15:06*	*05/02/22 03:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**394**		4.95		mg/Kg			04/29/22 22:18	1

Client Sample ID: BH-6 (24-25')

Lab Sample ID: 880-14143-42
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 16:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 16:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 16:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/28/22 11:42	05/01/22 16:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 16:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/28/22 11:42	05/01/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/28/22 11:42*	*05/01/22 16:40*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*04/28/22 11:42*	*05/01/22 16:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:06	05/02/22 00:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/02/22 00:19	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-6 (24-25')

Lab Sample ID: 880-14143-42
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 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		04/27/22 15:06	05/02/22 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*04/27/22 15:06*	*05/02/22 00:19*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/27/22 15:06*	*05/02/22 00:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.9**		5.03		mg/Kg			04/29/22 22:26	1

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

Lab Sample ID: 880-14143-43
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 17:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 17:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 17:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/28/22 11:42	05/01/22 17:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 17:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/28/22 11:42	05/01/22 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/28/22 11:42*	*05/01/22 17:07*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/28/22 11:42*	*05/01/22 17:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:01	05/01/22 16:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 16:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/27/22 15:01*	*05/01/22 16:30*	*1*
o-Terphenyl	*101*		*70 - 130*	*04/27/22 15:01*	*05/01/22 16:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61800**		249		mg/Kg			04/29/22 14:11	50

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-7 (2-3')

Lab Sample ID: 880-14143-44
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 17:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 17:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 17:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/28/22 11:42	05/01/22 17:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/28/22 11:42	05/01/22 17:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/28/22 11:42	05/01/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*04/28/22 11:42*	*05/01/22 17:33*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/28/22 11:42*	*05/01/22 17:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:00	04/30/22 03:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:00	04/30/22 03:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:00	04/30/22 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*04/27/22 15:00*	*04/30/22 03:40*	*1*
o-Terphenyl	*117*		*70 - 130*	*04/27/22 15:00*	*04/30/22 03:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**701**		24.8		mg/Kg			04/29/22 16:50	5

Client Sample ID: BH-7 (4-5')

Lab Sample ID: 880-14143-45
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:42	05/01/22 17:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:42	05/01/22 17:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:42	05/01/22 17:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/28/22 11:42	05/01/22 17:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:42	05/01/22 17:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/22 11:42	05/01/22 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*04/28/22 11:42*	*05/01/22 17:59*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/28/22 11:42*	*05/01/22 17:59*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-7 (4-5')

Lab Sample ID: 880-14143-45
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:00	04/30/22 04:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:00	04/30/22 04:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:00	04/30/22 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/27/22 15:00*	*04/30/22 04:01*	*1*
o-Terphenyl	*113*		*70 - 130*	*04/27/22 15:00*	*04/30/22 04:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1610**		24.9		mg/Kg			04/29/22 17:17	5

Client Sample ID: BH-7 (6-7')

Lab Sample ID: 880-14143-46
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:42	05/01/22 18:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:42	05/01/22 18:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:42	05/01/22 18:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/28/22 11:42	05/01/22 18:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/22 11:42	05/01/22 18:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/22 11:42	05/01/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/28/22 11:42*	*05/01/22 18:25*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*04/28/22 11:42*	*05/01/22 18:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/02/22 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 12:38	1

Method: 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		04/27/22 15:00	04/30/22 04:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:00	04/30/22 04:22	1

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-7 (6-7')
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Lab Sample ID: 880-14143-46
Matrix: Solid

Method: 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		04/27/22 15:00	04/30/22 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*04/27/22 15:00*	*04/30/22 04:22*	*1*
o-Terphenyl	*105*		*70 - 130*	*04/27/22 15:00*	*04/30/22 04:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**		25.0		mg/Kg			04/29/22 14:55	5

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-14143-1	BH-1 (0-1')	108	94										
880-14143-1 MS	BH-1 (0-1')	111	96										
880-14143-1 MSD	BH-1 (0-1')	111	98										
880-14143-2	BH-1 (2-3')	111	100										
880-14143-3	BH-1 (4-5')	105	96										
880-14143-4	BH-1 (6-7')	106	98										
880-14143-5	BH-1 (9-10')	105	96										
880-14143-6	BH-2 (0-1')	112	96										
880-14143-7	BH-2 (2-3')	106	97										
880-14143-8	BH-2 (4-5')	108	97										
880-14143-9	BH-2 (6-7')	109	97										
880-14143-11	BH-3 (0-1')	105	98										
880-14143-12	BH-3 (2-3')	114	101										
880-14143-13	BH-3 (4-5')	110	101										
880-14143-14	BH-3 (6-7')	100	94										
880-14143-15	BH-3 (9-10')	108	101										
880-14143-16	BH-3 (12-13')	108	100										
880-14143-17	BH-3 (14-15')	112	98										
880-14143-18	BH-4 (0-1')	110	101										
880-14143-19	BH-4 (2-3')	114	102										
880-14143-20	BH-4 (4-5')	104	98										
880-14143-21	BH-4 (6-7')	105	99										
880-14143-21 MS	BH-4 (6-7')	102	100										
880-14143-21 MSD	BH-4 (6-7')	106	103										
880-14143-22	BH-4 (9-10')	104	97										
880-14143-23	BH-4 (12-13')	105	100										
880-14143-25	BH-5 (0-1')	104	100										
880-14143-26	BH-5 (2-3')	108	100										
880-14143-27	BH-5 (4-5')	106	102										
880-14143-28	BH-5 (6-7')	110	103										
880-14143-29	BH-5 (9-10')	108	100										
880-14143-30	BH-5 (12-13')	112	101										
880-14143-31	BH-5 (14-15')	112	102										
880-14143-32	BH-5 (19-20')	107	100										
880-14143-34	BH-6 (0-1')	107	101										
880-14143-35	BH-6 (2-3')	108	101										
880-14143-36	BH-6 (4-5')	110	97										
880-14143-37	BH-6 (6-7')	110	101										
880-14143-38	BH-6 (9-10')	114	100										
880-14143-39	BH-6 (12-13')	108	97										
880-14143-40	BH-6 (14-15')	113	99										
880-14143-41	BH-6 (19-20')	103	91										
880-14143-41 MS	BH-6 (19-20')	111	101										
880-14143-41 MSD	BH-6 (19-20')	107	96										
880-14143-42	BH-6 (24-25')	106	95										
880-14143-43	BH-7 (0-1')	110	89										
880-14143-44	BH-7 (2-3')	121	89										
880-14143-45	BH-7 (4-5')	123	98										
880-14143-46	BH-7 (6-7')	99	83										

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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)
LCS 880-24420/1-A	Lab Control Sample	101	99
LCS 880-24423/1-A	Lab Control Sample	102	100
LCSD 880-24409/2-A	Lab Control Sample Dup	101	100
LCSD 880-24420/2-A	Lab Control Sample Dup	110	101
LCSD 880-24423/2-A	Lab Control Sample Dup	107	101
MB 880-24409/5-A	Method Blank	101	93
MB 880-24420/5-A	Method Blank	99	97
MB 880-24423/5-A	Method Blank	82	86

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-14137-A-21-B MS	Matrix Spike	93	95
880-14137-A-21-C MSD	Matrix Spike Duplicate	89	91
880-14143-1	BH-1 (0-1')	82	95
880-14143-1 MS	BH-1 (0-1')	85	92
880-14143-1 MSD	BH-1 (0-1')	78	84
880-14143-2	BH-1 (2-3')	85	101
880-14143-3	BH-1 (4-5')	92	110
880-14143-4	BH-1 (6-7')	90	107
880-14143-5	BH-1 (9-10')	85	99
880-14143-6	BH-2 (0-1')	93	112
880-14143-7	BH-2 (2-3')	86	102
880-14143-8	BH-2 (4-5')	79	93
880-14143-9	BH-2 (6-7')	96	109
880-14143-11	BH-3 (0-1')	95	115
880-14143-12	BH-3 (2-3')	87	105
880-14143-13	BH-3 (4-5')	86	104
880-14143-14	BH-3 (6-7')	99	121
880-14143-15	BH-3 (9-10')	77	90
880-14143-16	BH-3 (12-13')	86	103
880-14143-17	BH-3 (14-15')	92	112
880-14143-18	BH-4 (0-1')	83	100
880-14143-19	BH-4 (2-3')	78	91
880-14143-20	BH-4 (4-5')	85	100
880-14143-21	BH-4 (6-7')	104	128
880-14143-21 MS	BH-4 (6-7')	81	85
880-14143-21 MSD	BH-4 (6-7')	80	87
880-14143-22	BH-4 (9-10')	77	89
880-14143-23	BH-4 (12-13')	99	119
880-14143-25	BH-5 (0-1')	105	126
880-14143-26	BH-5 (2-3')	105	129
880-14143-27	BH-5 (4-5')	106	125
880-14143-28	BH-5 (6-7')	106	131 S1+

Surrogate Summary

Client: Carmona Resources
Job ID: 880-14143-1
Project/Site: Copperhead Fee A 3H (02.08.22)
SDG: Eddy Co,NM

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-14143-29	BH-5 (9-10')	81	94										
880-14143-30	BH-5 (12-13')	91	105										
880-14143-31	BH-5 (14-15')	93	113										
880-14143-32	BH-5 (19-20')	89	106										
880-14143-34	BH-6 (0-1')	99	119										
880-14143-35	BH-6 (2-3')	90	105										
880-14143-36	BH-6 (4-5')	102	124										
880-14143-37	BH-6 (6-7')	97	120										
880-14143-38	BH-6 (9-10')	97	117										
880-14143-39	BH-6 (12-13')	93	114										
880-14143-40	BH-6 (14-15')	84	102										
880-14143-41	BH-6 (19-20')	84	94										
880-14143-42	BH-6 (24-25')	87	99										
880-14143-43	BH-7 (0-1')	85	101										
880-14143-44	BH-7 (2-3')	105	117										
880-14143-45	BH-7 (4-5')	101	113										
880-14143-46	BH-7 (6-7')	89	105										
LCS 880-24289/2-A	Lab Control Sample	126	133 S1+										
LCSD 880-24289/3-A	Lab Control Sample Dup	125	134 S1+										
MB 880-24289/1-A	Method Blank	120	149 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)										
LCS 880-24350/2-A	Lab Control Sample	99	123										
LCS 880-24351/2-A	Lab Control Sample	112	135 S1+										
LCSD 880-24350/3-A	Lab Control Sample Dup	102	125										
LCSD 880-24351/3-A	Lab Control Sample Dup	110	132 S1+										
MB 880-24350/1-A	Method Blank	81	100										
MB 880-24351/1-A	Method Blank	106	134 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24409/5-A
Matrix: Solid
Analysis Batch: 24589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:34	05/02/22 03:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:34	05/02/22 03:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:34	05/02/22 03:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/28/22 11:34	05/02/22 03:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:34	05/02/22 03:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/22 11:34	05/02/22 03:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*04/28/22 11:34*	*05/02/22 03:31*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*04/28/22 11:34*	*05/02/22 03:31*	*1*

Lab Sample ID: LCSD 880-24409/2-A
Matrix: Solid
Analysis Batch: 24589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24409

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08556		mg/Kg		86	70 - 130	17	35
Toluene			0.100	0.08184		mg/Kg		82	70 - 130	16	35
Ethylbenzene			0.100	0.08386		mg/Kg		84	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.1683		mg/Kg		84	70 - 130	19	35
o-Xylene			0.100	0.09440		mg/Kg		94	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-14143-1 MS
Matrix: Solid
Analysis Batch: 24589

Client Sample ID: BH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 24409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U *- F1	0.0996	0.06538	F1	mg/Kg		66	70 - 130		
Toluene	<0.00201	U *-	0.0996	0.07248		mg/Kg		73	70 - 130		
Ethylbenzene	<0.00201	U *-	0.0996	0.07538		mg/Kg		75	70 - 130		
m-Xylene & p-Xylene	<0.00402	U *-	0.199	0.1545		mg/Kg		78	70 - 130		
o-Xylene	<0.00201	U *-	0.0996	0.08620		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-14143-1 MSD
Matrix: Solid
Analysis Batch: 24589

Client Sample ID: BH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 24409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U *- F1	0.0994	0.07603		mg/Kg		76	70 - 130	15	35
Toluene	<0.00201	U *-	0.0994	0.07690		mg/Kg		77	70 - 130	6	35

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-1 MSD
Matrix: Solid
Analysis Batch: 24589

Client Sample ID: BH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 24409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	<0.00201	U *-	0.0994	0.07835		mg/Kg		78	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U *-	0.199	0.1581		mg/Kg		80	70 - 130	2	35
o-Xylene	<0.00201	U *-	0.0994	0.08825		mg/Kg		89	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-24420/5-A
Matrix: Solid
Analysis Batch: 24635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 16:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 16:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 16:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/28/22 11:39	05/02/22 16:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:39	05/02/22 16:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/22 11:39	05/02/22 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/28/22 11:39*	*05/02/22 16:55*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/28/22 11:39*	*05/02/22 16:55*	*1*

Lab Sample ID: LCS 880-24420/1-A
Matrix: Solid
Analysis Batch: 24635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08264		mg/Kg		83	70 - 130
Toluene	0.100	0.08209		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08593		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1755		mg/Kg		88	70 - 130
o-Xylene	0.100	0.09610		mg/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-24420/2-A
Matrix: Solid
Analysis Batch: 24635

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24420

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08452		mg/Kg		85	70 - 130	2	35
Toluene	0.100	0.08772		mg/Kg		88	70 - 130	7	35
Ethylbenzene	0.100	0.09203		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1917		mg/Kg		96	70 - 130	9	35

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: LCSD 880-24420/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24635 — **Prep Batch: 24420**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene			0.100	0.1056		mg/Kg		106	70 - 130	9	35

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

Lab Sample ID: 880-14143-21 MS — **Client Sample ID: BH-4 (6-7')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24635 — **Prep Batch: 24420**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0994	0.08105		mg/Kg		82	70 - 130
Toluene	<0.00201	U	0.0994	0.07976		mg/Kg		80	70 - 130
Ethylbenzene	<0.00201	U	0.0994	0.08398		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1734		mg/Kg		87	70 - 130
o-Xylene	<0.00201	U	0.0994	0.09573		mg/Kg		96	70 - 130

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

Lab Sample ID: 880-14143-21 MSD — **Client Sample ID: BH-4 (6-7')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24635 — **Prep Batch: 24420**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.09323		mg/Kg		94	70 - 130	14	35
Toluene	<0.00201	U	0.0990	0.09019		mg/Kg		91	70 - 130	12	35
Ethylbenzene	<0.00201	U	0.0990	0.09340		mg/Kg		94	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1907		mg/Kg		96	70 - 130	10	35
o-Xylene	<0.00201	U	0.0990	0.1042		mg/Kg		105	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-24423/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24569 — **Prep Batch: 24423**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:42	05/01/22 15:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:42	05/01/22 15:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:42	05/01/22 15:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/28/22 11:42	05/01/22 15:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/22 11:42	05/01/22 15:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/22 11:42	05/01/22 15:48	1

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: MB 880-24423/5-A
Matrix: Solid
Analysis Batch: 24569

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24423

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	04/28/22 11:42	05/01/22 15:48	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/28/22 11:42	05/01/22 15:48	1

Lab Sample ID: LCS 880-24423/1-A
Matrix: Solid
Analysis Batch: 24569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24423

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09493		mg/Kg		95	70 - 130		
Toluene			0.100	0.08530		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.09523		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1909		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09279		mg/Kg		93	70 - 130		

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

Lab Sample ID: LCSD 880-24423/2-A
Matrix: Solid
Analysis Batch: 24569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24423

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1026		mg/Kg		103	70 - 130	8	35
Toluene			0.100	0.09854		mg/Kg		99	70 - 130	14	35
Ethylbenzene			0.100	0.1084		mg/Kg		108	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.2197		mg/Kg		110	70 - 130	14	35
o-Xylene			0.100	0.1076		mg/Kg		108	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-14143-41 MS
Matrix: Solid
Analysis Batch: 24569

Client Sample ID: BH-6 (19-20')
Prep Type: Total/NA
Prep Batch: 24423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.100	0.05848	F1	mg/Kg		58	70 - 130		
Toluene	<0.00200	U F1	0.100	0.05203	F1	mg/Kg		52	70 - 130		
Ethylbenzene	<0.00200	U F1	0.100	0.05745	F1	mg/Kg		57	70 - 130		
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1171	F1	mg/Kg		58	70 - 130		
o-Xylene	<0.00200	U F1	0.100	0.05580	F1	mg/Kg		56	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-41 MSD — **Client Sample ID: BH-6 (19-20')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24569 — **Prep Batch: 24423**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0996	0.06765	F1	mg/Kg		68	70 - 130	15	35
Toluene	<0.00200	U F1	0.0996	0.06100	F1	mg/Kg		61	70 - 130	16	35
Ethylbenzene	<0.00200	U F1	0.0996	0.06802	F1	mg/Kg		68	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.1395		mg/Kg		70	70 - 130	17	35
o-Xylene	<0.00200	U F1	0.0996	0.06645	F1	mg/Kg		67	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

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

Lab Sample ID: MB 880-24289/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24465 — **Prep Batch: 24289**

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		04/27/22 08:35	04/29/22 19:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 08:35	04/29/22 19:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 08:35	04/29/22 19:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*04/27/22 08:35*	*04/29/22 19:32*	*1*
o-Terphenyl	*149*	*S1+*	*70 - 130*	*04/27/22 08:35*	*04/29/22 19:32*	*1*

Lab Sample ID: LCS 880-24289/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24465 — **Prep Batch: 24289**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1061		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1213		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*126*		*70 - 130*
o-Terphenyl	*133*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-24289/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24465 — **Prep Batch: 24289**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1112		mg/Kg		111	70 - 130	5	20

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: LCSD 880-24289/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24465 — **Prep Batch: 24289**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	1228		mg/Kg		123	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*125*		*70 - 130*
o-Terphenyl	*134*	*S1+*	*70 - 130*

Lab Sample ID: 880-14137-A-21-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24465 — **Prep Batch: 24289**

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	1030		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	859.8		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 880-14137-A-21-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24465 — **Prep Batch: 24289**

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	952.0		mg/Kg		95	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	822.2		mg/Kg		78	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: MB 880-24350/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24579 — **Prep Batch: 24350**

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		04/27/22 15:01	05/01/22 11:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 11:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:01	05/01/22 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*04/27/22 15:01*	*05/01/22 11:32*	*1*
o-Terphenyl	*100*		*70 - 130*	*04/27/22 15:01*	*05/01/22 11:32*	*1*

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: LCS 880-24350/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24579 — **Prep Batch: 24350**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	923.2		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	893.2		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*123*		*70 - 130*

Lab Sample ID: LCSD 880-24350/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24579 — **Prep Batch: 24350**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	970.5		mg/Kg		97	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	919.0		mg/Kg		92	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: 880-14143-1 MS — **Client Sample ID: BH-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24579 — **Prep Batch: 24350**

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	920.5		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	887.3		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 880-14143-1 MSD — **Client Sample ID: BH-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24579 — **Prep Batch: 24350**

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	867.6		mg/Kg		87	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	818.6		mg/Kg		80	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-1 MSD
Matrix: Solid
Analysis Batch: 24579

Client Sample ID: BH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 24350

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	84		70 - 130

Lab Sample ID: MB 880-24351/1-A
Matrix: Solid
Analysis Batch: 24579

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24351

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		04/27/22 15:06	05/01/22 21:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/01/22 21:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 15:06	05/01/22 21:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	04/27/22 15:06	05/01/22 21:29	1
o-Terphenyl	134	S1+	70 - 130	04/27/22 15:06	05/01/22 21:29	1

Lab Sample ID: LCS 880-24351/2-A
Matrix: Solid
Analysis Batch: 24579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1036		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1008		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: LCSD 880-24351/3-A
Matrix: Solid
Analysis Batch: 24579

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1030		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	992.5		mg/Kg		99	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	132	S1+	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-21 MS — **Client Sample ID: BH-4 (6-7')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24579 — **Prep Batch: 24351**

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	895.7		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	856.8		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: 880-14143-21 MSD — **Client Sample ID: BH-4 (6-7')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 24579 — **Prep Batch: 24351**

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	953.2		mg/Kg		95	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	866.3		mg/Kg		85	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24332/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/29/22 13:50	1

Lab Sample ID: LCS 880-24332/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.1		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-24332/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24518

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.5		mg/Kg		104	90 - 110	3	20

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-14143-1 MS — **Client Sample ID: BH-1 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	297		249	545.2		mg/Kg		100	90 - 110

Lab Sample ID: 880-14143-1 MSD — **Client Sample ID: BH-1 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	297		249	550.3		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-14143-12 MS — **Client Sample ID: BH-3 (2-3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7620	F1	4990	14420	F1	mg/Kg		136	90 - 110

Lab Sample ID: 880-14143-12 MSD — **Client Sample ID: BH-3 (2-3')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7620	F1	4990	14350	F1	mg/Kg		135	90 - 110	0	20

Lab Sample ID: MB 880-24335/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/29/22 13:44	1

Lab Sample ID: LCS 880-24335/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.3		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-24335/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24519

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-14143-43 MS — **Client Sample ID: BH-7 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	61800		12500	72130	4	mg/Kg		83	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-14143-43 MSD — **Client Sample ID: BH-7 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61800		12500	72620	4	mg/Kg		87	90 - 110	1	20

Lab Sample ID: MB 880-24333/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/29/22 18:01	1

Lab Sample ID: LCS 880-24333/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.1		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-24333/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24520

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

Lab Sample ID: 880-14143-22 MS — **Client Sample ID: BH-4 (9-10')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	487		248	711.6		mg/Kg		90	90 - 110

Lab Sample ID: 880-14143-22 MSD — **Client Sample ID: BH-4 (9-10')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	487		248	713.0		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 880-14143-32 MS — **Client Sample ID: BH-5 (19-20')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1330		2500	3784		mg/Kg		98	90 - 110

Lab Sample ID: 880-14143-32 MSD — **Client Sample ID: BH-5 (19-20')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 24520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1330		2500	3782		mg/Kg		98	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

GC VOA

Prep Batch: 24409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-1	BH-1 (0-1')	Total/NA	Solid	5035	
880-14143-2	BH-1 (2-3')	Total/NA	Solid	5035	
880-14143-3	BH-1 (4-5')	Total/NA	Solid	5035	
880-14143-4	BH-1 (6-7')	Total/NA	Solid	5035	
880-14143-5	BH-1 (9-10')	Total/NA	Solid	5035	
880-14143-6	BH-2 (0-1')	Total/NA	Solid	5035	
880-14143-7	BH-2 (2-3')	Total/NA	Solid	5035	
880-14143-8	BH-2 (4-5')	Total/NA	Solid	5035	
880-14143-9	BH-2 (6-7')	Total/NA	Solid	5035	
880-14143-11	BH-3 (0-1')	Total/NA	Solid	5035	
880-14143-12	BH-3 (2-3')	Total/NA	Solid	5035	
880-14143-13	BH-3 (4-5')	Total/NA	Solid	5035	
880-14143-14	BH-3 (6-7')	Total/NA	Solid	5035	
880-14143-15	BH-3 (9-10')	Total/NA	Solid	5035	
880-14143-16	BH-3 (12-13')	Total/NA	Solid	5035	
880-14143-17	BH-3 (14-15')	Total/NA	Solid	5035	
880-14143-18	BH-4 (0-1')	Total/NA	Solid	5035	
880-14143-19	BH-4 (2-3')	Total/NA	Solid	5035	
880-14143-20	BH-4 (4-5')	Total/NA	Solid	5035	
MB 880-24409/5-A	Method Blank	Total/NA	Solid	5035	
LCSD 880-24409/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14143-1 MS	BH-1 (0-1')	Total/NA	Solid	5035	
880-14143-1 MSD	BH-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 24420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-21	BH-4 (6-7')	Total/NA	Solid	5035	
880-14143-22	BH-4 (9-10')	Total/NA	Solid	5035	
880-14143-23	BH-4 (12-13')	Total/NA	Solid	5035	
880-14143-25	BH-5 (0-1')	Total/NA	Solid	5035	
880-14143-26	BH-5 (2-3')	Total/NA	Solid	5035	
880-14143-27	BH-5 (4-5')	Total/NA	Solid	5035	
880-14143-28	BH-5 (6-7')	Total/NA	Solid	5035	
880-14143-29	BH-5 (9-10')	Total/NA	Solid	5035	
880-14143-30	BH-5 (12-13')	Total/NA	Solid	5035	
880-14143-31	BH-5 (14-15')	Total/NA	Solid	5035	
880-14143-32	BH-5 (19-20')	Total/NA	Solid	5035	
880-14143-34	BH-6 (0-1')	Total/NA	Solid	5035	
880-14143-35	BH-6 (2-3')	Total/NA	Solid	5035	
880-14143-36	BH-6 (4-5')	Total/NA	Solid	5035	
880-14143-37	BH-6 (6-7')	Total/NA	Solid	5035	
880-14143-38	BH-6 (9-10')	Total/NA	Solid	5035	
880-14143-39	BH-6 (12-13')	Total/NA	Solid	5035	
880-14143-40	BH-6 (14-15')	Total/NA	Solid	5035	
MB 880-24420/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24420/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24420/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14143-21 MS	BH-4 (6-7')	Total/NA	Solid	5035	
880-14143-21 MSD	BH-4 (6-7')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

GC VOA

Prep Batch: 24423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-41	BH-6 (19-20')	Total/NA	Solid	5035	
880-14143-42	BH-6 (24-25')	Total/NA	Solid	5035	
880-14143-43	BH-7 (0-1')	Total/NA	Solid	5035	
880-14143-44	BH-7 (2-3')	Total/NA	Solid	5035	
880-14143-45	BH-7 (4-5')	Total/NA	Solid	5035	
880-14143-46	BH-7 (6-7')	Total/NA	Solid	5035	
MB 880-24423/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24423/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24423/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14143-41 MS	BH-6 (19-20')	Total/NA	Solid	5035	
880-14143-41 MSD	BH-6 (19-20')	Total/NA	Solid	5035	

Analysis Batch: 24569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-41	BH-6 (19-20')	Total/NA	Solid	8021B	24423
880-14143-42	BH-6 (24-25')	Total/NA	Solid	8021B	24423
880-14143-43	BH-7 (0-1')	Total/NA	Solid	8021B	24423
880-14143-44	BH-7 (2-3')	Total/NA	Solid	8021B	24423
880-14143-45	BH-7 (4-5')	Total/NA	Solid	8021B	24423
880-14143-46	BH-7 (6-7')	Total/NA	Solid	8021B	24423
MB 880-24423/5-A	Method Blank	Total/NA	Solid	8021B	24423
LCS 880-24423/1-A	Lab Control Sample	Total/NA	Solid	8021B	24423
LCSD 880-24423/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24423
880-14143-41 MS	BH-6 (19-20')	Total/NA	Solid	8021B	24423
880-14143-41 MSD	BH-6 (19-20')	Total/NA	Solid	8021B	24423

Analysis Batch: 24589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-1	BH-1 (0-1')	Total/NA	Solid	8021B	24409
880-14143-2	BH-1 (2-3')	Total/NA	Solid	8021B	24409
880-14143-3	BH-1 (4-5')	Total/NA	Solid	8021B	24409
880-14143-4	BH-1 (6-7')	Total/NA	Solid	8021B	24409
880-14143-5	BH-1 (9-10')	Total/NA	Solid	8021B	24409
880-14143-6	BH-2 (0-1')	Total/NA	Solid	8021B	24409
880-14143-7	BH-2 (2-3')	Total/NA	Solid	8021B	24409
880-14143-8	BH-2 (4-5')	Total/NA	Solid	8021B	24409
880-14143-9	BH-2 (6-7')	Total/NA	Solid	8021B	24409
880-14143-11	BH-3 (0-1')	Total/NA	Solid	8021B	24409
880-14143-12	BH-3 (2-3')	Total/NA	Solid	8021B	24409
880-14143-13	BH-3 (4-5')	Total/NA	Solid	8021B	24409
880-14143-14	BH-3 (6-7')	Total/NA	Solid	8021B	24409
880-14143-15	BH-3 (9-10')	Total/NA	Solid	8021B	24409
880-14143-16	BH-3 (12-13')	Total/NA	Solid	8021B	24409
880-14143-17	BH-3 (14-15')	Total/NA	Solid	8021B	24409
880-14143-18	BH-4 (0-1')	Total/NA	Solid	8021B	24409
880-14143-19	BH-4 (2-3')	Total/NA	Solid	8021B	24409
880-14143-20	BH-4 (4-5')	Total/NA	Solid	8021B	24409
MB 880-24409/5-A	Method Blank	Total/NA	Solid	8021B	24409
LCSD 880-24409/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24409
880-14143-1 MS	BH-1 (0-1')	Total/NA	Solid	8021B	24409
880-14143-1 MSD	BH-1 (0-1')	Total/NA	Solid	8021B	24409

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

GC VOA

Analysis Batch: 24635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-21	BH-4 (6-7')	Total/NA	Solid	8021B	24420
880-14143-22	BH-4 (9-10')	Total/NA	Solid	8021B	24420
880-14143-23	BH-4 (12-13')	Total/NA	Solid	8021B	24420
880-14143-25	BH-5 (0-1')	Total/NA	Solid	8021B	24420
880-14143-26	BH-5 (2-3')	Total/NA	Solid	8021B	24420
880-14143-27	BH-5 (4-5')	Total/NA	Solid	8021B	24420
880-14143-28	BH-5 (6-7')	Total/NA	Solid	8021B	24420
880-14143-29	BH-5 (9-10')	Total/NA	Solid	8021B	24420
880-14143-30	BH-5 (12-13')	Total/NA	Solid	8021B	24420
880-14143-31	BH-5 (14-15')	Total/NA	Solid	8021B	24420
880-14143-32	BH-5 (19-20')	Total/NA	Solid	8021B	24420
880-14143-34	BH-6 (0-1')	Total/NA	Solid	8021B	24420
880-14143-35	BH-6 (2-3')	Total/NA	Solid	8021B	24420
880-14143-36	BH-6 (4-5')	Total/NA	Solid	8021B	24420
880-14143-37	BH-6 (6-7')	Total/NA	Solid	8021B	24420
880-14143-38	BH-6 (9-10')	Total/NA	Solid	8021B	24420
880-14143-39	BH-6 (12-13')	Total/NA	Solid	8021B	24420
880-14143-40	BH-6 (14-15')	Total/NA	Solid	8021B	24420
MB 880-24420/5-A	Method Blank	Total/NA	Solid	8021B	24420
LCS 880-24420/1-A	Lab Control Sample	Total/NA	Solid	8021B	24420
LCSD 880-24420/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24420
880-14143-21 MS	BH-4 (6-7')	Total/NA	Solid	8021B	24420
880-14143-21 MSD	BH-4 (6-7')	Total/NA	Solid	8021B	24420

Analysis Batch: 24662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-1	BH-1 (0-1')	Total/NA	Solid	Total BTEX	
880-14143-2	BH-1 (2-3')	Total/NA	Solid	Total BTEX	
880-14143-3	BH-1 (4-5')	Total/NA	Solid	Total BTEX	
880-14143-4	BH-1 (6-7')	Total/NA	Solid	Total BTEX	
880-14143-5	BH-1 (9-10')	Total/NA	Solid	Total BTEX	
880-14143-6	BH-2 (0-1')	Total/NA	Solid	Total BTEX	
880-14143-7	BH-2 (2-3')	Total/NA	Solid	Total BTEX	
880-14143-8	BH-2 (4-5')	Total/NA	Solid	Total BTEX	
880-14143-9	BH-2 (6-7')	Total/NA	Solid	Total BTEX	
880-14143-11	BH-3 (0-1')	Total/NA	Solid	Total BTEX	
880-14143-12	BH-3 (2-3')	Total/NA	Solid	Total BTEX	
880-14143-13	BH-3 (4-5')	Total/NA	Solid	Total BTEX	
880-14143-14	BH-3 (6-7')	Total/NA	Solid	Total BTEX	
880-14143-15	BH-3 (9-10')	Total/NA	Solid	Total BTEX	
880-14143-16	BH-3 (12-13')	Total/NA	Solid	Total BTEX	
880-14143-17	BH-3 (14-15')	Total/NA	Solid	Total BTEX	
880-14143-18	BH-4 (0-1')	Total/NA	Solid	Total BTEX	
880-14143-19	BH-4 (2-3')	Total/NA	Solid	Total BTEX	
880-14143-20	BH-4 (4-5')	Total/NA	Solid	Total BTEX	
880-14143-21	BH-4 (6-7')	Total/NA	Solid	Total BTEX	
880-14143-22	BH-4 (9-10')	Total/NA	Solid	Total BTEX	
880-14143-23	BH-4 (12-13')	Total/NA	Solid	Total BTEX	
880-14143-25	BH-5 (0-1')	Total/NA	Solid	Total BTEX	
880-14143-26	BH-5 (2-3')	Total/NA	Solid	Total BTEX	
880-14143-27	BH-5 (4-5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

GC VOA (Continued)

Analysis Batch: 24662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-28	BH-5 (6-7')	Total/NA	Solid	Total BTEX	
880-14143-29	BH-5 (9-10')	Total/NA	Solid	Total BTEX	
880-14143-30	BH-5 (12-13')	Total/NA	Solid	Total BTEX	
880-14143-31	BH-5 (14-15')	Total/NA	Solid	Total BTEX	
880-14143-32	BH-5 (19-20')	Total/NA	Solid	Total BTEX	
880-14143-34	BH-6 (0-1')	Total/NA	Solid	Total BTEX	
880-14143-35	BH-6 (2-3')	Total/NA	Solid	Total BTEX	
880-14143-36	BH-6 (4-5')	Total/NA	Solid	Total BTEX	
880-14143-37	BH-6 (6-7')	Total/NA	Solid	Total BTEX	
880-14143-38	BH-6 (9-10')	Total/NA	Solid	Total BTEX	
880-14143-39	BH-6 (12-13')	Total/NA	Solid	Total BTEX	
880-14143-40	BH-6 (14-15')	Total/NA	Solid	Total BTEX	
880-14143-41	BH-6 (19-20')	Total/NA	Solid	Total BTEX	
880-14143-42	BH-6 (24-25')	Total/NA	Solid	Total BTEX	
880-14143-43	BH-7 (0-1')	Total/NA	Solid	Total BTEX	
880-14143-44	BH-7 (2-3')	Total/NA	Solid	Total BTEX	
880-14143-45	BH-7 (4-5')	Total/NA	Solid	Total BTEX	
880-14143-46	BH-7 (6-7')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-44	BH-7 (2-3')	Total/NA	Solid	8015NM Prep	
880-14143-45	BH-7 (4-5')	Total/NA	Solid	8015NM Prep	
880-14143-46	BH-7 (6-7')	Total/NA	Solid	8015NM Prep	
MB 880-24289/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24289/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24289/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14137-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14137-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 24350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-1	BH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-14143-2	BH-1 (2-3')	Total/NA	Solid	8015NM Prep	
880-14143-3	BH-1 (4-5')	Total/NA	Solid	8015NM Prep	
880-14143-4	BH-1 (6-7')	Total/NA	Solid	8015NM Prep	
880-14143-5	BH-1 (9-10')	Total/NA	Solid	8015NM Prep	
880-14143-6	BH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-14143-7	BH-2 (2-3')	Total/NA	Solid	8015NM Prep	
880-14143-8	BH-2 (4-5')	Total/NA	Solid	8015NM Prep	
880-14143-9	BH-2 (6-7')	Total/NA	Solid	8015NM Prep	
880-14143-11	BH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-14143-12	BH-3 (2-3')	Total/NA	Solid	8015NM Prep	
880-14143-13	BH-3 (4-5')	Total/NA	Solid	8015NM Prep	
880-14143-14	BH-3 (6-7')	Total/NA	Solid	8015NM Prep	
880-14143-15	BH-3 (9-10')	Total/NA	Solid	8015NM Prep	
880-14143-16	BH-3 (12-13')	Total/NA	Solid	8015NM Prep	
880-14143-17	BH-3 (14-15')	Total/NA	Solid	8015NM Prep	
880-14143-18	BH-4 (0-1')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

GC Semi VOA (Continued)

Prep Batch: 24350 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-19	BH-4 (2-3')	Total/NA	Solid	8015NM Prep	
880-14143-20	BH-4 (4-5')	Total/NA	Solid	8015NM Prep	
880-14143-43	BH-7 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-24350/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24350/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24350/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14143-1 MS	BH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-14143-1 MSD	BH-1 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 24351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-21	BH-4 (6-7')	Total/NA	Solid	8015NM Prep	
880-14143-22	BH-4 (9-10')	Total/NA	Solid	8015NM Prep	
880-14143-23	BH-4 (12-13')	Total/NA	Solid	8015NM Prep	
880-14143-25	BH-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-14143-26	BH-5 (2-3')	Total/NA	Solid	8015NM Prep	
880-14143-27	BH-5 (4-5')	Total/NA	Solid	8015NM Prep	
880-14143-28	BH-5 (6-7')	Total/NA	Solid	8015NM Prep	
880-14143-29	BH-5 (9-10')	Total/NA	Solid	8015NM Prep	
880-14143-30	BH-5 (12-13')	Total/NA	Solid	8015NM Prep	
880-14143-31	BH-5 (14-15')	Total/NA	Solid	8015NM Prep	
880-14143-32	BH-5 (19-20')	Total/NA	Solid	8015NM Prep	
880-14143-34	BH-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-14143-35	BH-6 (2-3')	Total/NA	Solid	8015NM Prep	
880-14143-36	BH-6 (4-5')	Total/NA	Solid	8015NM Prep	
880-14143-37	BH-6 (6-7')	Total/NA	Solid	8015NM Prep	
880-14143-38	BH-6 (9-10')	Total/NA	Solid	8015NM Prep	
880-14143-39	BH-6 (12-13')	Total/NA	Solid	8015NM Prep	
880-14143-40	BH-6 (14-15')	Total/NA	Solid	8015NM Prep	
880-14143-41	BH-6 (19-20')	Total/NA	Solid	8015NM Prep	
880-14143-42	BH-6 (24-25')	Total/NA	Solid	8015NM Prep	
MB 880-24351/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24351/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14143-21 MS	BH-4 (6-7')	Total/NA	Solid	8015NM Prep	
880-14143-21 MSD	BH-4 (6-7')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-44	BH-7 (2-3')	Total/NA	Solid	8015B NM	24289
880-14143-45	BH-7 (4-5')	Total/NA	Solid	8015B NM	24289
880-14143-46	BH-7 (6-7')	Total/NA	Solid	8015B NM	24289
MB 880-24289/1-A	Method Blank	Total/NA	Solid	8015B NM	24289
LCS 880-24289/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24289
LCSD 880-24289/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24289
880-14137-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	24289
880-14137-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24289

Analysis Batch: 24579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-1	BH-1 (0-1')	Total/NA	Solid	8015B NM	24350

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

GC Semi VOA (Continued)

Analysis Batch: 24579 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-2	BH-1 (2-3')	Total/NA	Solid	8015B NM	24350
880-14143-3	BH-1 (4-5')	Total/NA	Solid	8015B NM	24350
880-14143-4	BH-1 (6-7')	Total/NA	Solid	8015B NM	24350
880-14143-5	BH-1 (9-10')	Total/NA	Solid	8015B NM	24350
880-14143-6	BH-2 (0-1')	Total/NA	Solid	8015B NM	24350
880-14143-7	BH-2 (2-3')	Total/NA	Solid	8015B NM	24350
880-14143-8	BH-2 (4-5')	Total/NA	Solid	8015B NM	24350
880-14143-9	BH-2 (6-7')	Total/NA	Solid	8015B NM	24350
880-14143-11	BH-3 (0-1')	Total/NA	Solid	8015B NM	24350
880-14143-12	BH-3 (2-3')	Total/NA	Solid	8015B NM	24350
880-14143-13	BH-3 (4-5')	Total/NA	Solid	8015B NM	24350
880-14143-14	BH-3 (6-7')	Total/NA	Solid	8015B NM	24350
880-14143-15	BH-3 (9-10')	Total/NA	Solid	8015B NM	24350
880-14143-16	BH-3 (12-13')	Total/NA	Solid	8015B NM	24350
880-14143-17	BH-3 (14-15')	Total/NA	Solid	8015B NM	24350
880-14143-18	BH-4 (0-1')	Total/NA	Solid	8015B NM	24350
880-14143-19	BH-4 (2-3')	Total/NA	Solid	8015B NM	24350
880-14143-20	BH-4 (4-5')	Total/NA	Solid	8015B NM	24350
880-14143-21	BH-4 (6-7')	Total/NA	Solid	8015B NM	24351
880-14143-22	BH-4 (9-10')	Total/NA	Solid	8015B NM	24351
880-14143-23	BH-4 (12-13')	Total/NA	Solid	8015B NM	24351
880-14143-25	BH-5 (0-1')	Total/NA	Solid	8015B NM	24351
880-14143-26	BH-5 (2-3')	Total/NA	Solid	8015B NM	24351
880-14143-27	BH-5 (4-5')	Total/NA	Solid	8015B NM	24351
880-14143-28	BH-5 (6-7')	Total/NA	Solid	8015B NM	24351
880-14143-29	BH-5 (9-10')	Total/NA	Solid	8015B NM	24351
880-14143-30	BH-5 (12-13')	Total/NA	Solid	8015B NM	24351
880-14143-31	BH-5 (14-15')	Total/NA	Solid	8015B NM	24351
880-14143-32	BH-5 (19-20')	Total/NA	Solid	8015B NM	24351
880-14143-34	BH-6 (0-1')	Total/NA	Solid	8015B NM	24351
880-14143-35	BH-6 (2-3')	Total/NA	Solid	8015B NM	24351
880-14143-36	BH-6 (4-5')	Total/NA	Solid	8015B NM	24351
880-14143-37	BH-6 (6-7')	Total/NA	Solid	8015B NM	24351
880-14143-38	BH-6 (9-10')	Total/NA	Solid	8015B NM	24351
880-14143-39	BH-6 (12-13')	Total/NA	Solid	8015B NM	24351
880-14143-40	BH-6 (14-15')	Total/NA	Solid	8015B NM	24351
880-14143-41	BH-6 (19-20')	Total/NA	Solid	8015B NM	24351
880-14143-42	BH-6 (24-25')	Total/NA	Solid	8015B NM	24351
880-14143-43	BH-7 (0-1')	Total/NA	Solid	8015B NM	24350
MB 880-24350/1-A	Method Blank	Total/NA	Solid	8015B NM	24350
MB 880-24351/1-A	Method Blank	Total/NA	Solid	8015B NM	24351
LCS 880-24350/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24350
LCS 880-24351/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24351
LCSD 880-24350/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24350
LCSD 880-24351/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24351
880-14143-1 MS	BH-1 (0-1')	Total/NA	Solid	8015B NM	24350
880-14143-1 MSD	BH-1 (0-1')	Total/NA	Solid	8015B NM	24350
880-14143-21 MS	BH-4 (6-7')	Total/NA	Solid	8015B NM	24351
880-14143-21 MSD	BH-4 (6-7')	Total/NA	Solid	8015B NM	24351

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

GC Semi VOA

Analysis Batch: 24659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-1	BH-1 (0-1')	Total/NA	Solid	8015 NM	
880-14143-2	BH-1 (2-3')	Total/NA	Solid	8015 NM	
880-14143-3	BH-1 (4-5')	Total/NA	Solid	8015 NM	
880-14143-4	BH-1 (6-7')	Total/NA	Solid	8015 NM	
880-14143-5	BH-1 (9-10')	Total/NA	Solid	8015 NM	
880-14143-6	BH-2 (0-1')	Total/NA	Solid	8015 NM	
880-14143-7	BH-2 (2-3')	Total/NA	Solid	8015 NM	
880-14143-8	BH-2 (4-5')	Total/NA	Solid	8015 NM	
880-14143-9	BH-2 (6-7')	Total/NA	Solid	8015 NM	
880-14143-11	BH-3 (0-1')	Total/NA	Solid	8015 NM	
880-14143-12	BH-3 (2-3')	Total/NA	Solid	8015 NM	
880-14143-13	BH-3 (4-5')	Total/NA	Solid	8015 NM	
880-14143-14	BH-3 (6-7')	Total/NA	Solid	8015 NM	
880-14143-15	BH-3 (9-10')	Total/NA	Solid	8015 NM	
880-14143-16	BH-3 (12-13')	Total/NA	Solid	8015 NM	
880-14143-17	BH-3 (14-15')	Total/NA	Solid	8015 NM	
880-14143-18	BH-4 (0-1')	Total/NA	Solid	8015 NM	
880-14143-19	BH-4 (2-3')	Total/NA	Solid	8015 NM	
880-14143-20	BH-4 (4-5')	Total/NA	Solid	8015 NM	
880-14143-21	BH-4 (6-7')	Total/NA	Solid	8015 NM	
880-14143-22	BH-4 (9-10')	Total/NA	Solid	8015 NM	
880-14143-23	BH-4 (12-13')	Total/NA	Solid	8015 NM	
880-14143-25	BH-5 (0-1')	Total/NA	Solid	8015 NM	
880-14143-26	BH-5 (2-3')	Total/NA	Solid	8015 NM	
880-14143-27	BH-5 (4-5')	Total/NA	Solid	8015 NM	
880-14143-28	BH-5 (6-7')	Total/NA	Solid	8015 NM	
880-14143-29	BH-5 (9-10')	Total/NA	Solid	8015 NM	
880-14143-30	BH-5 (12-13')	Total/NA	Solid	8015 NM	
880-14143-31	BH-5 (14-15')	Total/NA	Solid	8015 NM	
880-14143-32	BH-5 (19-20')	Total/NA	Solid	8015 NM	
880-14143-34	BH-6 (0-1')	Total/NA	Solid	8015 NM	
880-14143-35	BH-6 (2-3')	Total/NA	Solid	8015 NM	
880-14143-36	BH-6 (4-5')	Total/NA	Solid	8015 NM	
880-14143-37	BH-6 (6-7')	Total/NA	Solid	8015 NM	
880-14143-38	BH-6 (9-10')	Total/NA	Solid	8015 NM	
880-14143-39	BH-6 (12-13')	Total/NA	Solid	8015 NM	
880-14143-40	BH-6 (14-15')	Total/NA	Solid	8015 NM	
880-14143-41	BH-6 (19-20')	Total/NA	Solid	8015 NM	
880-14143-42	BH-6 (24-25')	Total/NA	Solid	8015 NM	
880-14143-43	BH-7 (0-1')	Total/NA	Solid	8015 NM	
880-14143-44	BH-7 (2-3')	Total/NA	Solid	8015 NM	
880-14143-45	BH-7 (4-5')	Total/NA	Solid	8015 NM	
880-14143-46	BH-7 (6-7')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-1	BH-1 (0-1')	Soluble	Solid	DI Leach	
880-14143-2	BH-1 (2-3')	Soluble	Solid	DI Leach	
880-14143-3	BH-1 (4-5')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

HPLC/IC (Continued)

Leach Batch: 24332 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-4	BH-1 (6-7')	Soluble	Solid	DI Leach	
880-14143-5	BH-1 (9-10')	Soluble	Solid	DI Leach	
880-14143-6	BH-2 (0-1')	Soluble	Solid	DI Leach	
880-14143-7	BH-2 (2-3')	Soluble	Solid	DI Leach	
880-14143-8	BH-2 (4-5')	Soluble	Solid	DI Leach	
880-14143-9	BH-2 (6-7')	Soluble	Solid	DI Leach	
880-14143-11	BH-3 (0-1')	Soluble	Solid	DI Leach	
880-14143-12	BH-3 (2-3')	Soluble	Solid	DI Leach	
880-14143-13	BH-3 (4-5')	Soluble	Solid	DI Leach	
880-14143-14	BH-3 (6-7')	Soluble	Solid	DI Leach	
880-14143-15	BH-3 (9-10')	Soluble	Solid	DI Leach	
880-14143-16	BH-3 (12-13')	Soluble	Solid	DI Leach	
880-14143-17	BH-3 (14-15')	Soluble	Solid	DI Leach	
880-14143-18	BH-4 (0-1')	Soluble	Solid	DI Leach	
880-14143-19	BH-4 (2-3')	Soluble	Solid	DI Leach	
880-14143-20	BH-4 (4-5')	Soluble	Solid	DI Leach	
880-14143-21	BH-4 (6-7')	Soluble	Solid	DI Leach	
MB 880-24332/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24332/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24332/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14143-1 MS	BH-1 (0-1')	Soluble	Solid	DI Leach	
880-14143-1 MSD	BH-1 (0-1')	Soluble	Solid	DI Leach	
880-14143-12 MS	BH-3 (2-3')	Soluble	Solid	DI Leach	
880-14143-12 MSD	BH-3 (2-3')	Soluble	Solid	DI Leach	

Leach Batch: 24333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-22	BH-4 (9-10')	Soluble	Solid	DI Leach	
880-14143-23	BH-4 (12-13')	Soluble	Solid	DI Leach	
880-14143-25	BH-5 (0-1')	Soluble	Solid	DI Leach	
880-14143-26	BH-5 (2-3')	Soluble	Solid	DI Leach	
880-14143-27	BH-5 (4-5')	Soluble	Solid	DI Leach	
880-14143-28	BH-5 (6-7')	Soluble	Solid	DI Leach	
880-14143-29	BH-5 (9-10')	Soluble	Solid	DI Leach	
880-14143-30	BH-5 (12-13')	Soluble	Solid	DI Leach	
880-14143-31	BH-5 (14-15')	Soluble	Solid	DI Leach	
880-14143-32	BH-5 (19-20')	Soluble	Solid	DI Leach	
880-14143-34	BH-6 (0-1')	Soluble	Solid	DI Leach	
880-14143-35	BH-6 (2-3')	Soluble	Solid	DI Leach	
880-14143-36	BH-6 (4-5')	Soluble	Solid	DI Leach	
880-14143-37	BH-6 (6-7')	Soluble	Solid	DI Leach	
880-14143-38	BH-6 (9-10')	Soluble	Solid	DI Leach	
880-14143-39	BH-6 (12-13')	Soluble	Solid	DI Leach	
880-14143-40	BH-6 (14-15')	Soluble	Solid	DI Leach	
880-14143-41	BH-6 (19-20')	Soluble	Solid	DI Leach	
880-14143-42	BH-6 (24-25')	Soluble	Solid	DI Leach	
MB 880-24333/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24333/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24333/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14143-22 MS	BH-4 (9-10')	Soluble	Solid	DI Leach	
880-14143-22 MSD	BH-4 (9-10')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

HPLC/IC (Continued)

Leach Batch: 24333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-32 MS	BH-5 (19-20')	Soluble	Solid	DI Leach	
880-14143-32 MSD	BH-5 (19-20')	Soluble	Solid	DI Leach	

Leach Batch: 24335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-43	BH-7 (0-1')	Soluble	Solid	DI Leach	
880-14143-44	BH-7 (2-3')	Soluble	Solid	DI Leach	
880-14143-45	BH-7 (4-5')	Soluble	Solid	DI Leach	
880-14143-46	BH-7 (6-7')	Soluble	Solid	DI Leach	
MB 880-24335/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24335/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24335/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14143-43 MS	BH-7 (0-1')	Soluble	Solid	DI Leach	
880-14143-43 MSD	BH-7 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 24518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-1	BH-1 (0-1')	Soluble	Solid	300.0	24332
880-14143-2	BH-1 (2-3')	Soluble	Solid	300.0	24332
880-14143-3	BH-1 (4-5')	Soluble	Solid	300.0	24332
880-14143-4	BH-1 (6-7')	Soluble	Solid	300.0	24332
880-14143-5	BH-1 (9-10')	Soluble	Solid	300.0	24332
880-14143-6	BH-2 (0-1')	Soluble	Solid	300.0	24332
880-14143-7	BH-2 (2-3')	Soluble	Solid	300.0	24332
880-14143-8	BH-2 (4-5')	Soluble	Solid	300.0	24332
880-14143-9	BH-2 (6-7')	Soluble	Solid	300.0	24332
880-14143-11	BH-3 (0-1')	Soluble	Solid	300.0	24332
880-14143-12	BH-3 (2-3')	Soluble	Solid	300.0	24332
880-14143-13	BH-3 (4-5')	Soluble	Solid	300.0	24332
880-14143-14	BH-3 (6-7')	Soluble	Solid	300.0	24332
880-14143-15	BH-3 (9-10')	Soluble	Solid	300.0	24332
880-14143-16	BH-3 (12-13')	Soluble	Solid	300.0	24332
880-14143-17	BH-3 (14-15')	Soluble	Solid	300.0	24332
880-14143-18	BH-4 (0-1')	Soluble	Solid	300.0	24332
880-14143-19	BH-4 (2-3')	Soluble	Solid	300.0	24332
880-14143-20	BH-4 (4-5')	Soluble	Solid	300.0	24332
880-14143-21	BH-4 (6-7')	Soluble	Solid	300.0	24332
MB 880-24332/1-A	Method Blank	Soluble	Solid	300.0	24332
LCS 880-24332/2-A	Lab Control Sample	Soluble	Solid	300.0	24332
LCSD 880-24332/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24332
880-14143-1 MS	BH-1 (0-1')	Soluble	Solid	300.0	24332
880-14143-1 MSD	BH-1 (0-1')	Soluble	Solid	300.0	24332
880-14143-12 MS	BH-3 (2-3')	Soluble	Solid	300.0	24332
880-14143-12 MSD	BH-3 (2-3')	Soluble	Solid	300.0	24332

Analysis Batch: 24519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-43	BH-7 (0-1')	Soluble	Solid	300.0	24335
880-14143-44	BH-7 (2-3')	Soluble	Solid	300.0	24335
880-14143-45	BH-7 (4-5')	Soluble	Solid	300.0	24335
880-14143-46	BH-7 (6-7')	Soluble	Solid	300.0	24335

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

HPLC/IC (Continued)

Analysis Batch: 24519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24335/1-A	Method Blank	Soluble	Solid	300.0	24335
LCS 880-24335/2-A	Lab Control Sample	Soluble	Solid	300.0	24335
LCSD 880-24335/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24335
880-14143-43 MS	BH-7 (0-1')	Soluble	Solid	300.0	24335
880-14143-43 MSD	BH-7 (0-1')	Soluble	Solid	300.0	24335

Analysis Batch: 24520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14143-22	BH-4 (9-10')	Soluble	Solid	300.0	24333
880-14143-23	BH-4 (12-13')	Soluble	Solid	300.0	24333
880-14143-25	BH-5 (0-1')	Soluble	Solid	300.0	24333
880-14143-26	BH-5 (2-3')	Soluble	Solid	300.0	24333
880-14143-27	BH-5 (4-5')	Soluble	Solid	300.0	24333
880-14143-28	BH-5 (6-7')	Soluble	Solid	300.0	24333
880-14143-29	BH-5 (9-10')	Soluble	Solid	300.0	24333
880-14143-30	BH-5 (12-13')	Soluble	Solid	300.0	24333
880-14143-31	BH-5 (14-15')	Soluble	Solid	300.0	24333
880-14143-32	BH-5 (19-20')	Soluble	Solid	300.0	24333
880-14143-34	BH-6 (0-1')	Soluble	Solid	300.0	24333
880-14143-35	BH-6 (2-3')	Soluble	Solid	300.0	24333
880-14143-36	BH-6 (4-5')	Soluble	Solid	300.0	24333
880-14143-37	BH-6 (6-7')	Soluble	Solid	300.0	24333
880-14143-38	BH-6 (9-10')	Soluble	Solid	300.0	24333
880-14143-39	BH-6 (12-13')	Soluble	Solid	300.0	24333
880-14143-40	BH-6 (14-15')	Soluble	Solid	300.0	24333
880-14143-41	BH-6 (19-20')	Soluble	Solid	300.0	24333
880-14143-42	BH-6 (24-25')	Soluble	Solid	300.0	24333
MB 880-24333/1-A	Method Blank	Soluble	Solid	300.0	24333
LCS 880-24333/2-A	Lab Control Sample	Soluble	Solid	300.0	24333
LCSD 880-24333/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24333
880-14143-22 MS	BH-4 (9-10')	Soluble	Solid	300.0	24333
880-14143-22 MSD	BH-4 (9-10')	Soluble	Solid	300.0	24333
880-14143-32 MS	BH-5 (19-20')	Soluble	Solid	300.0	24333
880-14143-32 MSD	BH-5 (19-20')	Soluble	Solid	300.0	24333

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-1

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 04:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 12:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24332	04/27/22 12:52	SC	XEN MID
Soluble	Analysis	300.0		1			24518	04/29/22 14:17	SC	XEN MID

Client Sample ID: BH-1 (2-3')

Lab Sample ID: 880-14143-2

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 04:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 13:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24332	04/27/22 12:52	SC	XEN MID
Soluble	Analysis	300.0		1			24518	04/29/22 14:45	SC	XEN MID

Client Sample ID: BH-1 (4-5')

Lab Sample ID: 880-14143-3

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 04:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 14:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24332	04/27/22 12:52	SC	XEN MID
Soluble	Analysis	300.0		1			24518	04/29/22 14:54	SC	XEN MID

Client Sample ID: BH-1 (6-7')

Lab Sample ID: 880-14143-4

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 05:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-1 (6-7')

Lab Sample ID: 880-14143-4
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 14:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24332	04/27/22 12:52	SC	XEN MID
Soluble	Analysis	300.0		1			24518	04/29/22 15:03	SC	XEN MID

Client Sample ID: BH-1 (9-10')

Lab Sample ID: 880-14143-5
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 05:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 14:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		1			24518	04/29/22 15:13	SC	XEN MID

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

Lab Sample ID: 880-14143-6
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 05:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 15:04	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		10			24518	05/01/22 15:26	SC	XEN MID

Client Sample ID: BH-2 (2-3')

Lab Sample ID: 880-14143-7
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 06:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 15:25	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-2 (2-3')

Lab Sample ID: 880-14143-7

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		20			24518	04/30/22 19:48	SC	XEN MID

Client Sample ID: BH-2 (4-5')

Lab Sample ID: 880-14143-8

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 06:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 15:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		10			24518	04/30/22 19:57	SC	XEN MID

Client Sample ID: BH-2 (6-7')

Lab Sample ID: 880-14143-9

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 06:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 16:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		1			24518	04/29/22 16:08	SC	XEN MID

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

Lab Sample ID: 880-14143-11

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 09:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 17:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		20			24518	04/29/22 16:18	SC	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-3 (2-3')

Lab Sample ID: 880-14143-12

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 09:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		20			24518	04/29/22 16:28	SC	XEN MID

Client Sample ID: BH-3 (4-5')

Lab Sample ID: 880-14143-13

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 09:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		10			24518	04/30/22 20:06	SC	XEN MID

Client Sample ID: BH-3 (6-7')

Lab Sample ID: 880-14143-14

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 10:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 18:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		20			24518	04/29/22 17:06	SC	XEN MID

Client Sample ID: BH-3 (9-10')

Lab Sample ID: 880-14143-15

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 10:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-3 (9-10')

Lab Sample ID: 880-14143-15

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 18:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		20			24518	04/29/22 17:35	SC	XEN MID

Client Sample ID: BH-3 (12-13')

Lab Sample ID: 880-14143-16

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 11:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 19:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		1			24518	04/29/22 17:44	SC	XEN MID

Client Sample ID: BH-3 (14-15')

Lab Sample ID: 880-14143-17

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 11:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 19:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		1			24518	04/29/22 17:54	SC	XEN MID

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

Lab Sample ID: 880-14143-18

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 11:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 20:04	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-4 (0-1')
Lab Sample ID: 880-14143-18

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		20			24518	04/29/22 18:03	SC	XEN MID

Client Sample ID: BH-4 (2-3')
Lab Sample ID: 880-14143-19

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 12:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 20:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		10			24518	04/29/22 18:13	SC	XEN MID

Client Sample ID: BH-4 (4-5')
Lab Sample ID: 880-14143-20

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	24409	04/28/22 11:34	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24589	05/02/22 12:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 20:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		10			24518	04/29/22 18:22	SC	XEN MID

Client Sample ID: BH-4 (6-7')
Lab Sample ID: 880-14143-21

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 17:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 22:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24332	04/27/22 12:53	SC	XEN MID
Soluble	Analysis	300.0		10			24518	04/29/22 18:32	SC	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-4 (9-10')

Lab Sample ID: 880-14143-22

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 17:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 23:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 18:27	CH	XEN MID

Client Sample ID: BH-4 (12-13')

Lab Sample ID: 880-14143-23

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 18:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 23:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 18:54	CH	XEN MID

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

Lab Sample ID: 880-14143-25

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 18:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 00:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		50			24520	04/29/22 19:12	CH	XEN MID

Client Sample ID: BH-5 (2-3')

Lab Sample ID: 880-14143-26

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 18:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-5 (2-3')

Lab Sample ID: 880-14143-26

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 01:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		5			24520	05/02/22 00:29	CH	XEN MID

Client Sample ID: BH-5 (4-5')

Lab Sample ID: 880-14143-27

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 19:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 01:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		5			24520	04/29/22 19:47	CH	XEN MID

Client Sample ID: BH-5 (6-7')

Lab Sample ID: 880-14143-28

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 19:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 01:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		10			24520	05/02/22 00:38	CH	XEN MID

Client Sample ID: BH-5 (9-10')

Lab Sample ID: 880-14143-29

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 19:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 02:04	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-5 (9-10')
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Lab Sample ID: 880-14143-29
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	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 20:05	CH	XEN MID

Client Sample ID: BH-5 (12-13')
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Lab Sample ID: 880-14143-30
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			5.01 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 20:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 02:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 20:14	CH	XEN MID

Client Sample ID: BH-5 (14-15')
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Lab Sample ID: 880-14143-31
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			4.96 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 20:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 03:06	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 20:22	CH	XEN MID

Client Sample ID: BH-5 (19-20')
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Lab Sample ID: 880-14143-32
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			4.97 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 22:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 03:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		10			24520	04/29/22 20:31	CH	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Lab Sample ID: 880-14143-34

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 22:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 04:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		10			24520	05/02/22 00:47	CH	XEN MID

Client Sample ID: BH-6 (2-3')

Lab Sample ID: 880-14143-35

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 23:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 04:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		10			24520	05/02/22 00:56	CH	XEN MID

Client Sample ID: BH-6 (4-5')

Lab Sample ID: 880-14143-36

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 23:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 04:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		5			24520	04/29/22 21:33	CH	XEN MID

Client Sample ID: BH-6 (6-7')

Lab Sample ID: 880-14143-37

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/02/22 23:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-6 (6-7')

Lab Sample ID: 880-14143-37
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 05:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		10			24520	05/02/22 01:05	CH	XEN MID

Client Sample ID: BH-6 (9-10')

Lab Sample ID: 880-14143-38
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/03/22 00:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 05:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 21:51	CH	XEN MID

Client Sample ID: BH-6 (12-13')

Lab Sample ID: 880-14143-39
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/03/22 00:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 05:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 22:00	CH	XEN MID

Client Sample ID: BH-6 (14-15')

Lab Sample ID: 880-14143-40
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	24420	04/28/22 11:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24635	05/03/22 00:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 06:15	AJ	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-6 (14-15')

Lab Sample ID: 880-14143-40
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 22:09	CH	XEN MID

Client Sample ID: BH-6 (19-20')

Lab Sample ID: 880-14143-41
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	24423	04/28/22 11:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24569	05/01/22 16:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 03:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 22:18	CH	XEN MID

Client Sample ID: BH-6 (24-25')

Lab Sample ID: 880-14143-42
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24423	04/28/22 11:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24569	05/01/22 16:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24351	04/27/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/02/22 00:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	24333	04/27/22 12:56	SC	XEN MID
Soluble	Analysis	300.0		1			24520	04/29/22 22:26	CH	XEN MID

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

Lab Sample ID: 880-14143-43
Matrix: Solid
Date Collected: 04/26/22 00:00
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24423	04/28/22 11:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24569	05/01/22 17:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24350	04/27/22 15:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24579	05/01/22 16:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		50			24519	04/29/22 14:11	SC	XEN MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Client Sample ID: BH-7 (2-3')

Lab Sample ID: 880-14143-44

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	24423	04/28/22 11:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24569	05/01/22 17:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24289	04/27/22 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24465	04/30/22 03:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		5			24519	04/29/22 16:50	SC	XEN MID

Client Sample ID: BH-7 (4-5')

Lab Sample ID: 880-14143-45

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	24423	04/28/22 11:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24569	05/01/22 17:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24289	04/27/22 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24465	04/30/22 04:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		5			24519	04/29/22 17:17	SC	XEN MID

Client Sample ID: BH-7 (6-7')

Lab Sample ID: 880-14143-46

Date Collected: 04/26/22 00:00
Matrix: Solid
Date Received: 04/27/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24423	04/28/22 11:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24569	05/01/22 18:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24662	05/02/22 13:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24659	05/02/22 12:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24289	04/27/22 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24465	04/30/22 04:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		5			24519	04/29/22 14:55	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	OII Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (02.08.22)

Job ID: 880-14143-1
SDG: Eddy Co,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14143-1	BH-1 (0-1')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-2	BH-1 (2-3')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-3	BH-1 (4-5')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-4	BH-1 (6-7')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-5	BH-1 (9-10')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-6	BH-2 (0-1')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-7	BH-2 (2-3')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-8	BH-2 (4-5')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-9	BH-2 (6-7')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-11	BH-3 (0-1')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-12	BH-3 (2-3')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-13	BH-3 (4-5')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-14	BH-3 (6-7')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-15	BH-3 (9-10')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-16	BH-3 (12-13')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-17	BH-3 (14-15')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-18	BH-4 (0-1')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-19	BH-4 (2-3')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-20	BH-4 (4-5')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-21	BH-4 (6-7')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-22	BH-4 (9-10')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-23	BH-4 (12-13')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-25	BH-5 (0-1')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-26	BH-5 (2-3')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-27	BH-5 (4-5')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-28	BH-5 (6-7')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-29	BH-5 (9-10')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-30	BH-5 (12-13')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-31	BH-5 (14-15')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-32	BH-5 (19-20')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-34	BH-6 (0-1')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-35	BH-6 (2-3')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-36	BH-6 (4-5')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-37	BH-6 (6-7')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-38	BH-6 (9-10')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-39	BH-6 (12-13')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-40	BH-6 (14-15')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-41	BH-6 (19-20')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-42	BH-6 (24-25')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-43	BH-7 (0-1')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-44	BH-7 (2-3')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-45	BH-7 (4-5')	Solid	04/26/22 00:00	04/27/22 10:00
880-14143-46	BH-7 (6-7')	Solid	04/26/22 00:00	04/27/22 10:00

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Work Order No: 14143

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 West Wall Ste 415	Address	15 W Loving Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823	Email	jacquiharris@conocophillips.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project.

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Copperhead Fee A 3H (02 08.22)	Turn Around	
Project Number	1023	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date	72Hrs
Sampler's Name	CRM	TAT starts the day received by the lab, if received by 4 30pm	
PO #			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	Yes No
Received Intact	(Yes) No	Thermometer ID	IR6
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-0.1
Sample Custody Seals	Yes No (N/A)	Temperature Reading	1.6
Total Containers		Corrected Temperature	1.5

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD
BH-1 (0-1')	4/26/2022		X		G	1	X	X	X	
BH-1 (2-3')	4/26/2022		X		G	1	X	X	X	
BH-1 (4-5')	4/26/2022		X		G	1	X	X	X	
BH-1 (6-7')	4/26/2022		X		G	1	X	X	X	
BH-1 (9-10')	4/26/2022		X		G	1	X	X	X	
BH-2 (0-1')	4/26/2022		X		G	1	X	X	X	
BH-2 (2-3')	4/26/2022		X		G	1	X	X	X	
BH-2 (4-5')	4/26/2022		X		G	1	X	X	X	
BH-2 (6-7')	4/26/2022		X		G	1	X	X	X	
BH-2 (9-10')	4/26/2022		X		G	1				

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

880-14143 Chain of Custody

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		4/27 10:00	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Received by OCD: 3/21/2023 10:12:02 AM

Released to Imaging: 4/26/2023 10:12:53 AM

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Work Order No: 14143

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Project Manager	Conner Moehring	Bill to. (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 West Wall Ste 415	Address	15 W Loving Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823 Email		jacquiharris@conocophillips com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ uperfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	Copperhead Fee A 3H (02 08 22)	Turn Around	
Project Number	1023	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date	72Hrs
Sampler's Name	CRM	TAT starts the day received by the lab if received by 4.30pm	
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	HOLD	Sample Comments
BH-3 (0-1')	4/26/2022		X		G	1		X	X	X		
BH-3 (2-3')	4/26/2022		X		G	1		X	X	X		
BH-3 (4-5')	4/26/2022		X		G	1		X	X	X		
BH-3 (6-7')	4/26/2022		X		G	1		X	X	X		
BH-3 (9-10')	4/26/2022		X		G	1		X	X	X		
BH-3 (12-13')	4/26/2022		X		G	1		X	X	X		
BH-3 (14-15')	4/26/2022		X		G	1		X	X	X		
BH-4 (0-1')	4/26/2022		X		G	1		X	X	X		
BH-4 (2-3')	4/26/2022		X		G	1		X	X	X		
BH-4 (4-5')	4/26/2022		X		G	1		X	X	X		

Parameters

ANALYSIS REQUEST

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		4/27/10:00	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

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Work Order No: 14143

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Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 West Wall Ste 415	Address	15 W Loving Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823	Email	jacquiharris@conocophillips.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Copperhead Fee A 3H (02 08 22)	Turn Around	
Project Number	1023	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date	72Hrs
Sampler's Name	CRM	TAT starts the day received by the lab if received by 4.30pm	
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	HOLD	Sample Comments
BH-4 (6-7')	4/26/2022		X		G	1		X	X	X		
BH-4 (9-10')	4/26/2022		X		G	1		X	X	X		
BH-4 (12-13')	4/26/2022		X		G	1		X	X	X		
BH-4 (14-15')	4/26/2022		X		G	1		X	X	X		
BH-5 (0-1')	4/26/2022		X		G	1		X	X	X		
BH-5 (2-3')	4/26/2022		X		G	1		X	X	X		
BH-5 (4-5')	4/26/2022		X		G	1		X	X	X		
BH-5 (6-7')	4/26/2022		X		G	1		X	X	X		
BH-5 (9-10')	4/26/2022		X		G	1		X	X	X		
BH-5 (12-13')	4/26/2022		X		G	1		X	X	X		

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		4/27 10:00	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

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Work Order No: 14143

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Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address	310 West Wall Ste 415	Address	15 W Loving Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823	Email	jacquiharris@conocophillips.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Copperhead Fee A 3H (02 08 22)	Turn Around	☐ Routine ☑ Rush
Project Number	1023	Due Date	72Hrs
Project Location	Eddy Co, NM	TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name	CRM		
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

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	HOLD	Sample Comments
BH-5 (14-15')	4/26/2022		X		G	1		X	X	X		
BH-5 (19-20')	4/26/2022		X		G	1		X	X	X		
BH-5 (24-25')	4/26/2022		X		G	1					X	
BH-6 (0-1')	4/26/2022		X		G	1		X	X	X		
BH-6 (2-3')	4/26/2022		X		G	1		X	X	X		
BH-6 (4-5')	4/26/2022		X		G	1		X	X	X		
BH-6 (6-7')	4/26/2022		X		G	1		X	X	X		
BH-6 (9-10')	4/26/2022		X		G	1		X	X	X		
BH-6 (12-13')	4/26/2022		X		G	1		X	X	X		
BH-6 (14-15')	4/26/2022		X		G	1		X	X	X		

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		4/27 10:00	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

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Released to Imaging: 4/26/2023 10:12:53 AM

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Work Order No: 14143

Project Manager	Conner Moehring	Bill to (if different)	Jacqui Harris
Company Name	Carmona Resources	Company Name	COG
Address.	310 West Wall Ste 415	Address	15 W Loving Rd
City, State ZIP	Midland, TX 79701	City, State ZIP	Loving,NM 88256
Phone	432-813-6823	Email	jacquiharris@conocophillips.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Copperhead Fee A 3H (02 08 22)	Turn Around	
Project Number	1023	☐ Routine ☑ Rush	
Project Location	Eddy Co, NM	Due Date	72Hrs
Sampler's Name.	CRM	TAT starts the day received by the lab if received by 4 30pm	
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		

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD
BH-6 (19-20')	4/26/2022		X		G	1		X	X	X	
BH-6 (24-25')	4/26/2022		X		G	1		X	X	X	
BH-7 (0-1')	4/26/2022		X		G	1		X	X	X	
BH-7 (2-3')	4/26/2022		X		G	1		X	X	X	
BH-7 (4-5')	4/26/2022		X		G	1		X	X	X	
BH-7 (6-7')	4/26/2022		X		G	1		X	X	X	
BH-7 (9-10')	4/26/2022		X		G	1					X

ANALYSIS REQUEST

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		4/27 10:00	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Received by OCD: 3/21/2023 10:12:02 AM

Released to Imaging: 4/26/2023 10:12:53 AM

5/3/2022

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-14143-1
SDG Number: Eddy Co,NM

Login Number: 14143
List Number: 1
Creator: Teel, Brianna

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	

Appendix D

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 11/30/2022 9:37:32 AM Revision 1

JOB DESCRIPTION

Copperhead 30153056

JOB NUMBER

890-3462-2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 4/20/2023 10:12:35 AM

Eurofins Carlsbad

Job Notes

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
11/30/2022 9:37:32 AM
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: Copperhead 30153056

Laboratory Job ID: 890-3462-2

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

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.
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
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*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, 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: Copperhead 30153056

Job ID: 890-3462-2

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/Site: Copperhead 30153056

Job ID: 890-3462-2

Job ID: 890-3462-2

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3298-1

Receipt
The samples were received on 10/26/2022 4:46 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 5.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-3-0'-4'-102522 (890-3298-1) and TP-6-0'-4'-102622 (890-3298-2).

GC VOA
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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-38114 and analytical batch 880-38169 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-38114 and analytical batch 880-38169 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.

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

Narrative

Job Narrative
890-3318-1

Receipt
The samples were received on 10/28/2022 11:30 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 5.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-5-0'-4-102722 (890-3318-1) and SW-6-0'-4'-102722 (890-3318-2).

GC VOA
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 laboratory control sample (LCS) associated with preparation batch 880-38261 and analytical batch 880-38217 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.

HPLC/IC

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Job ID: 890-3462-2 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

Narrative

Job Narrative
890-3362-1

REVISION

The report being provided is a revision of the original report sent on 11/7/2022. The report (revision 1) is being revised due to Revised report to verify sample result per client request..

Report revision history

Receipt
The samples were received on 11/2/2022 12:09 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 5.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1-0-4-110122 (890-3362-1), SW-2-0-4-110122 (890-3362-2), SW-9-0-4-110122 (890-3362-3), B-29-4-110122 (890-3362-4), B-30-4-110122 (890-3362-5), B-31-4-110122 (890-3362-6), B-32-4-11012 (890-3362-7), B-33-4-110122 (890-3362-8), B-34-4-110122 (890-3362-9), SW-7-0-4-110122 (890-3362-10), SW-8-0-4-110122 (890-3362-11), B-17-4-110122 (890-3362-12), B-18-4-110122 (890-3362-13), B-19-4-110122 (890-3362-14), B-20-4-110122 (890-3362-15), B-21-4-110122 (890-3362-16), B-22-4-110122 (890-3362-17), B-23-4-110211 (890-3362-18), B-24-4-110122 (890-3362-19), B-25-4-110122 (890-3362-20), B-26-4-110222 (890-3362-21) and b-27-4-110222 (890-3362-22).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-1-0-4-110122 (890-3362-1), SW-2-0-4-110122 (890-3362-2), SW-9-0-4-110122 (890-3362-3), B-29-4-110122 (890-3362-4), B-30-4-110122 (890-3362-5), B-31-4-110122 (890-3362-6), B-32-4-11012 (890-3362-7), B-33-4-110122 (890-3362-8), B-34-4-110122 (890-3362-9), SW-8-0-4-110122 (890-3362-11), B-17-4-110122 (890-3362-12), B-18-4-110122 (890-3362-13), B-19-4-110122 (890-3362-14), B-20-4-110122 (890-3362-15), B-21-4-110122 (890-3362-16), B-22-4-110122 (890-3362-17), B-23-4-110211 (890-3362-18), B-24-4-110122 (890-3362-19), B-25-4-110122 (890-3362-20), (CCV 880-38697/33), (890-3362-A-1-D MS) and (890-3362-A-1-E 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: (CCV 880-38697/2), (LCS 880-38630/1-A) and (LCSD 880-38630/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-7-0-4-110122 (890-3362-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
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 880-38606 and analytical batch 880-38645 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 and precision for preparation batch 880-38597 and analytical batch 880-38646 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Job ID: 890-3462-2 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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.

Narrative

Job Narrative
890-3367-1

Receipt
The samples were received on 11/2/2022 4:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-28-4-110222 (890-3367-1), B-35-4-110222 (890-3367-2), B-36-4-110222 (890-3367-3), B-37-4-110222 (890-3367-4), B-38-4-110222 (890-3367-5), B-39-4-110222 (890-3367-6), B-40-4-110222 (890-3367-7), B-41-4-110222 (890-3367-8) and B-42-4-110222 (890-3367-9).

GC VOA
Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-38880 and analytical batch 880-38952 recovered outside control limits for the following analytes: m-Xylene & p-Xylene. These analytes were biased low in the LCSD, however the LCS was acceptable; therefore, the data have been reported.

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

GC Semi VOA
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.

Narrative

Job Narrative
890-3387-1

Receipt
The samples were received on 11/4/2022 12:28 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 5.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-6A-0-4-110322 (890-3387-1), SW-11-0-4-110322 (890-3387-2), SW-10-0-4-110322 (890-3387-3), B-43-4-110322 (890-3387-4), B-44-4-110322 (890-3387-5), B-45-4-110322 (890-3387-6), B-46-4-110322 (890-3387-7), B-47-4-110322 (890-3387-8), B-48-4-110322 (890-3387-9), B-49-4-110322 (890-3387-10), B-50-4-110322 (890-3387-11), B-51-4-110322 (890-3387-12), B-52-4-110322 (890-3387-13), B-53-4-110322 (890-3387-14), B-54-4-110322 (890-3387-15), B-55-4-110322 (890-3387-16), B-56-4-110322 (890-3387-17) and B-57-4-110322 (890-3387-18).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-39138 and analytical batch 880-39343 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-39127 and analytical batch 880-39343 was outside the upper control limits.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Job ID: 890-3462-2 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

GC Semi VOA
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 880-38811 and analytical batch 880-38853 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.

Narrative

Job Narrative
890-3417-1

Receipt
The samples were received on 11/8/2022 12:10 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 5.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-8A-0'-4'-110722 (890-3417-1), B-65-4'-110822 (890-3417-2), B-66-4'-110822 (890-3417-3), B-67-4'-110822 (890-3417-4), B-68-4'-110822 (890-3417-5), B-69-4'-110822 (890-3417-6), B-70-4'-110822 (890-3417-7), B-71-4'-110822 (890-3417-8), B-72-4'-110822 (890-3417-9), B-73-4'-110822 (890-3417-10), SW-12-0'-4'-110722 (890-3417-11), SW-13-0'-4'-110722 (890-3417-12), SW-14-0'-4'-110722 (890-3417-13), B-57-4'-110722 (890-3417-14), B-58-4'-110822 (890-3417-15), B-59-4'-110822 (890-3417-16), B-60-4'-110722 (890-3417-17), B-61-4'-110722 (890-3417-18), B-62-4'-110722 (890-3417-19), B-63-4'-110722 (890-3417-20) and B-64-4'-110722 (890-3417-21).

GC VOA
Method 8021B: The method blank for preparation batch 880-39145 and analytical batch 880-39370 contained MTBE above the method detection limit. This target analyte concentration was less than the reporting limit (RL); 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.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 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.

Narrative

Job Narrative
890-3462-1

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Job ID: 890-3462-2 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Receipt
The samples were received on 11/15/2022 8:07 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 2.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-10A-0-4-111422 (890-3462-1), B-65A-5-111422 (890-3462-2), B-66A-5-111422 (890-3462-3), B-67A-5-111422 (890-3462-4) and B-68A-5-111422 (890-3462-5).

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

Narrative

Job Narrative
890-3462-2

Receipt
The samples were received on 11/15/2022 8:07 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 2.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-10A-0-4-111422 (890-3462-1), B-65A-5-111422 (890-3462-2), B-66A-5-111422 (890-3462-3), B-67A-5-111422 (890-3462-4) and B-68A-5-111422 (890-3462-5).

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

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

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-20838-1

Receipt
The samples were received on 10/26/2022 4:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-4'-102522 (880-20838-1) and B-2-4'-102522 (880-20838-2).

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

GC Semi VOA
Method TX_1005: The method blank for preparation batch 880-38083 and analytical batch 880-38141 contained C6-C12 Range Hydrocarbons above the method detection limit. This target analyte concentration was less than the reporting limit (RL); 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/Site: Copperhead 30153056

Job ID: 890-3462-2

Job ID: 890-3462-2 (Continued)

Laboratory: Eurofins Midland (Continued)

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

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

Narrative

Job Narrative
880-21034-1

Receipt
The samples were received on 11/2/2022 11:46 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-4-0'-4'-103122 (880-21034-1), B-3-4'-103122 (880-21034-2), B-4-4'-103122 (880-21034-3), B-5-4'-103122 (880-21034-4), B-6-4'-103122 (880-21034-5), B-7-4'-103122 (880-21034-6), B-8-4'-103122 (880-21034-7), B-9-4'-103122 (880-21034-8), B-10-4'-103122 (880-21034-9), B-11-4'-103122 (880-21034-10), B-12-4'-103122 (880-21034-11), B-13-4'-103122 (880-21034-12), B-14-4'-103122 (880-21034-13), B-15-4'-103122 (880-21034-14) and B-16-4'-103122 (880-21034-15).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: B-10-4'-103122 (880-21034-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The LCS was biased low for benzene, however the LCSD was acceptable. Since the method requires only an LCS,the data was qualified and reported. (LCS 880-38531/1-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-38531 and analytical batch 880-38810 were outside control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-21034-A-1-E MSD). 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.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-10-4'-103122 (880-21034-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-13-4'-103122 (880-21034-12) and B-14-4'-103122 (880-21034-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-16-4'-103122 (880-21034-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-38742 and analytical batch 880-38692 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); 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/Site: Copperhead 30153056

Job ID: 890-3462-2

Job ID: 890-3462-2 (Continued)

Laboratory: Eurofins Midland (Continued)

HPLC/IC

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

General Chemistry

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: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-1-4'-102522

Lab Sample ID: 880-20838-1
Date Collected: 10/25/22 14:00
Matrix: Solid
Date Received: 10/26/22 16:41
Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00228	U	0.00228	0.000438	mg/Kg	☼	10/31/22 11:51	11/01/22 10:19	1
Toluene	<0.00228	U	0.00228	0.000519	mg/Kg	☼	10/31/22 11:51	11/01/22 10:19	1
Ethylbenzene	<0.00228	U	0.00228	0.000643	mg/Kg	☼	10/31/22 11:51	11/01/22 10:19	1
m-Xylene & p-Xylene	<0.00455	U *-	0.00455	0.00115	mg/Kg	☼	10/31/22 11:51	11/01/22 10:19	1
o-Xylene	<0.00228	U *1	0.00228	0.000392	mg/Kg	☼	10/31/22 11:51	11/01/22 10:19	1
Xylenes, Total	<0.00455	U	0.00455	0.00115	mg/Kg	☼	10/31/22 11:51	11/01/22 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/31/22 11:51*	*11/01/22 10:19*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/31/22 11:51*	*11/01/22 10:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00455	U	0.00455	0.00115	mg/Kg			11/01/22 14:34	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	**41.4**	**J B**	56.5	17.0	mg/Kg	☼	10/28/22 10:20	10/29/22 17:49	1
>C12-C28 Range Hydrocarbons	<56.5	U	56.5	17.0	mg/Kg	☼	10/28/22 10:20	10/29/22 17:49	1
>C28-C35 Range Hydrocarbons	<56.5	U	56.5	17.0	mg/Kg	☼	10/28/22 10:20	10/29/22 17:49	1
Total Petroleum Hydrocarbons (C6-C35)	**41.4**	**J**	56.5	17.0	mg/Kg			10/30/22 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*10/28/22 10:20*	*10/29/22 17:49*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*10/28/22 10:20*	*10/29/22 17:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**859**		49.8	3.93	mg/Kg			10/28/22 00:15	10

Client Sample ID: B-2-4'-102522

Lab Sample ID: 880-20838-2
Date Collected: 10/25/22 14:05
Matrix: Solid
Date Received: 10/26/22 16:41
Percent Solids: 92.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00217	U	0.00217	0.000418	mg/Kg	☼	10/31/22 11:51	11/01/22 10:45	1
Toluene	<0.00217	U	0.00217	0.000496	mg/Kg	☼	10/31/22 11:51	11/01/22 10:45	1
Ethylbenzene	<0.00217	U	0.00217	0.000614	mg/Kg	☼	10/31/22 11:51	11/01/22 10:45	1
m-Xylene & p-Xylene	<0.00435	U *-	0.00435	0.00110	mg/Kg	☼	10/31/22 11:51	11/01/22 10:45	1
o-Xylene	<0.00217	U *1	0.00217	0.000374	mg/Kg	☼	10/31/22 11:51	11/01/22 10:45	1
Xylenes, Total	<0.00435	U	0.00435	0.00110	mg/Kg	☼	10/31/22 11:51	11/01/22 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*10/31/22 11:51*	*11/01/22 10:45*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/31/22 11:51*	*11/01/22 10:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00435	U	0.00435	0.00110	mg/Kg			11/01/22 14:34	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-2-4'-102522

Lab Sample ID: 880-20838-2
Date Collected: 10/25/22 14:05
Matrix: Solid
Date Received: 10/26/22 16:41
Percent Solids: 92.0

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	32.9	J B	54.3	16.3	mg/Kg	☼	10/28/22 10:20	10/29/22 18:10	1
>C12-C28 Range Hydrocarbons	<54.3	U	54.3	16.3	mg/Kg	☼	10/28/22 10:20	10/29/22 18:10	1
>C28-C35 Range Hydrocarbons	<54.3	U	54.3	16.3	mg/Kg	☼	10/28/22 10:20	10/29/22 18:10	1
Total Petroleum Hydrocarbons (C6-C35)	32.9	J	54.3	16.3	mg/Kg			10/30/22 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*10/28/22 10:20*	*10/29/22 18:10*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*10/28/22 10:20*	*10/29/22 18:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	771		25.0	1.98	mg/Kg			10/28/22 00:22	5

Client Sample ID: SW-4-0'-4'-103122

Lab Sample ID: 880-21034-1
Date Collected: 10/31/22 11:40
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00218	U *- F1	0.00218	0.000419	mg/Kg	☼	11/02/22 15:55	11/08/22 02:42	1
Toluene	<0.00218	U	0.00218	0.000496	mg/Kg	☼	11/02/22 15:55	11/08/22 02:42	1
Ethylbenzene	<0.00218	U	0.00218	0.000615	mg/Kg	☼	11/02/22 15:55	11/08/22 02:42	1
m-Xylene & p-Xylene	<0.00435	U	0.00435	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 02:42	1
o-Xylene	<0.00218	U	0.00218	0.000374	mg/Kg	☼	11/02/22 15:55	11/08/22 02:42	1
Xylenes, Total	<0.00435	U	0.00435	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/02/22 15:55*	*11/08/22 02:42*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/02/22 15:55*	*11/08/22 02:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00435	U	0.00435	0.00110	mg/Kg			11/08/22 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	25.6	J	54.2	16.3	mg/Kg			11/07/22 15:11	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	25.6	J B	54.2	16.3	mg/Kg	☼	11/04/22 14:07	11/04/22 22:19	1
Diesel Range Organics (Over C10-C28)	<54.2	U	54.2	16.3	mg/Kg	☼	11/04/22 14:07	11/04/22 22:19	1
Oil Range Organics (Over C28-C36)	<54.2	U	54.2	16.3	mg/Kg	☼	11/04/22 14:07	11/04/22 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*11/04/22 14:07*	*11/04/22 22:19*	*1*
o-Terphenyl	*111*		*70 - 130*	*11/04/22 14:07*	*11/04/22 22:19*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-4-0'-4'-103122

Lab Sample ID: 880-21034-1
Date Collected: 10/31/22 11:40
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**173**		5.48	0.433	mg/Kg	☼		11/03/22 09:04	1

Client Sample ID: B-3-4'-103122

Lab Sample ID: 880-21034-2
Date Collected: 10/31/22 11:45
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00222	U *-	0.00222	0.000427	mg/Kg	☼	11/02/22 15:55	11/08/22 03:03	1
Toluene	<0.00222	U	0.00222	0.000506	mg/Kg	☼	11/02/22 15:55	11/08/22 03:03	1
Ethylbenzene	<0.00222	U	0.00222	0.000626	mg/Kg	☼	11/02/22 15:55	11/08/22 03:03	1
m-Xylene & p-Xylene	<0.00443	U	0.00443	0.00112	mg/Kg	☼	11/02/22 15:55	11/08/22 03:03	1
o-Xylene	<0.00222	U	0.00222	0.000381	mg/Kg	☼	11/02/22 15:55	11/08/22 03:03	1
Xylenes, Total	<0.00443	U	0.00443	0.00112	mg/Kg	☼	11/02/22 15:55	11/08/22 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/02/22 15:55*	*11/08/22 03:03*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/02/22 15:55*	*11/08/22 03:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00443	U	0.00443	0.00112	mg/Kg			11/08/22 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	**20.8**	**J**	54.9	16.5	mg/Kg			11/07/22 15:11	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	**20.8**	**J B**	54.9	16.5	mg/Kg	☼	11/04/22 14:07	11/04/22 23:26	1
Diesel Range Organics (Over C10-C28)	<54.9	U	54.9	16.5	mg/Kg	☼	11/04/22 14:07	11/04/22 23:26	1
OII Range Organics (Over C28-C36)	<54.9	U	54.9	16.5	mg/Kg	☼	11/04/22 14:07	11/04/22 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*11/04/22 14:07*	*11/04/22 23:26*	*1*
o-Terphenyl	*115*		*70 - 130*	*11/04/22 14:07*	*11/04/22 23:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**999**		5.46	0.431	mg/Kg	☼		11/03/22 09:19	1

Client Sample ID: B-4-4'-103122

Lab Sample ID: 880-21034-3
Date Collected: 10/31/22 11:50
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00217	U *-	0.00217	0.000418	mg/Kg	☼	11/02/22 15:55	11/08/22 03:23	1
Toluene	<0.00217	U	0.00217	0.000495	mg/Kg	☼	11/02/22 15:55	11/08/22 03:23	1
Ethylbenzene	<0.00217	U	0.00217	0.000614	mg/Kg	☼	11/02/22 15:55	11/08/22 03:23	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-4-4'-103122

Lab Sample ID: 880-21034-3
Date Collected: 10/31/22 11:50
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00435	U	0.00435	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 03:23	1
o-Xylene	<0.00217	U	0.00217	0.000374	mg/Kg	☼	11/02/22 15:55	11/08/22 03:23	1
Xylenes, Total	<0.00435	U	0.00435	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/02/22 15:55*	*11/08/22 03:23*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/02/22 15:55*	*11/08/22 03:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00435	U	0.00435	0.00110	mg/Kg			11/08/22 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	**18.1**	**J**	54.4	16.3	mg/Kg			11/07/22 15:11	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	**18.1**	**J B**	54.4	16.3	mg/Kg	☼	11/04/22 14:07	11/04/22 23:48	1
Diesel Range Organics (Over C10-C28)	<54.4	U	54.4	16.3	mg/Kg	☼	11/04/22 14:07	11/04/22 23:48	1
Oil Range Organics (Over C28-C36)	<54.4	U	54.4	16.3	mg/Kg	☼	11/04/22 14:07	11/04/22 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/04/22 14:07*	*11/04/22 23:48*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/04/22 14:07*	*11/04/22 23:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1510**		27.3	2.16	mg/Kg	☼		11/03/22 09:24	5

Client Sample ID: B-5-4'-103122

Lab Sample ID: 880-21034-4
Date Collected: 10/31/22 12:00
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00221	U *-	0.00221	0.000425	mg/Kg	☼	11/02/22 15:55	11/08/22 03:43	1
Toluene	<0.00221	U	0.00221	0.000503	mg/Kg	☼	11/02/22 15:55	11/08/22 03:43	1
Ethylbenzene	<0.00221	U	0.00221	0.000623	mg/Kg	☼	11/02/22 15:55	11/08/22 03:43	1
m-Xylene & p-Xylene	<0.00441	U	0.00441	0.00111	mg/Kg	☼	11/02/22 15:55	11/08/22 03:43	1
o-Xylene	<0.00221	U	0.00221	0.000380	mg/Kg	☼	11/02/22 15:55	11/08/22 03:43	1
Xylenes, Total	<0.00441	U	0.00441	0.00111	mg/Kg	☼	11/02/22 15:55	11/08/22 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*11/02/22 15:55*	*11/08/22 03:43*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/02/22 15:55*	*11/08/22 03:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00441	U	0.00441	0.00111	mg/Kg			11/08/22 13:40	1

Eurofins Carlsbad

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-5-4'-103122

Lab Sample ID: 880-21034-4
Date Collected: 10/31/22 12:00
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.6	J	55.5	16.6	mg/Kg			11/07/22 15:11	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	18.4	J B	55.5	16.6	mg/Kg	☼	11/04/22 14:07	11/05/22 00:09	1
Diesel Range Organics (Over C10-C28)	20.2	J	55.5	16.6	mg/Kg	☼	11/04/22 14:07	11/05/22 00:09	1
Oll Range Organics (Over C28-C36)	<55.5	U	55.5	16.6	mg/Kg	☼	11/04/22 14:07	11/05/22 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/04/22 14:07*	*11/05/22 00:09*	*1*
o-Terphenyl	*114*		*70 - 130*	*11/04/22 14:07*	*11/05/22 00:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3820		27.7	2.19	mg/Kg	☼		11/03/22 09:29	5

Client Sample ID: B-6-4'-103122

Lab Sample ID: 880-21034-5
Date Collected: 10/31/22 12:05
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00222	U *-	0.00222	0.000428	mg/Kg	☼	11/02/22 15:55	11/08/22 04:04	1
Toluene	<0.00222	U	0.00222	0.000507	mg/Kg	☼	11/02/22 15:55	11/08/22 04:04	1
Ethylbenzene	<0.00222	U	0.00222	0.000628	mg/Kg	☼	11/02/22 15:55	11/08/22 04:04	1
m-Xylene & p-Xylene	<0.00445	U	0.00445	0.00112	mg/Kg	☼	11/02/22 15:55	11/08/22 04:04	1
o-Xylene	<0.00222	U	0.00222	0.000382	mg/Kg	☼	11/02/22 15:55	11/08/22 04:04	1
Xylenes, Total	<0.00445	U	0.00445	0.00112	mg/Kg	☼	11/02/22 15:55	11/08/22 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/02/22 15:55*	*11/08/22 04:04*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/02/22 15:55*	*11/08/22 04:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00445	U	0.00445	0.00112	mg/Kg			11/08/22 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	24.5	J	55.7	16.7	mg/Kg			11/07/22 15:11	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	24.5	J B	55.7	16.7	mg/Kg	☼	11/04/22 14:07	11/05/22 00:32	1
Diesel Range Organics (Over C10-C28)	<55.7	U	55.7	16.7	mg/Kg	☼	11/04/22 14:07	11/05/22 00:32	1
Oll Range Organics (Over C28-C36)	<55.7	U	55.7	16.7	mg/Kg	☼	11/04/22 14:07	11/05/22 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/04/22 14:07*	*11/05/22 00:32*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-6-4'-103122

Lab Sample ID: 880-21034-5
Date Collected: 10/31/22 12:05
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 89.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*104*		*70 - 130*	*11/04/22 14:07*	*11/05/22 00:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3410**		27.8	2.20	mg/Kg	☼		11/03/22 09:34	5

Client Sample ID: B-7-4'-103122

Lab Sample ID: 880-21034-6
Date Collected: 10/31/22 12:10
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00221	U *-	0.00221	0.000426	mg/Kg	☼	11/02/22 15:55	11/08/22 04:24	1
Toluene	<0.00221	U	0.00221	0.000505	mg/Kg	☼	11/02/22 15:55	11/08/22 04:24	1
Ethylbenzene	<0.00221	U	0.00221	0.000625	mg/Kg	☼	11/02/22 15:55	11/08/22 04:24	1
m-Xylene & p-Xylene	<0.00443	U	0.00443	0.00112	mg/Kg	☼	11/02/22 15:55	11/08/22 04:24	1
o-Xylene	<0.00221	U	0.00221	0.000381	mg/Kg	☼	11/02/22 15:55	11/08/22 04:24	1
Xylenes, Total	<0.00443	U	0.00443	0.00112	mg/Kg	☼	11/02/22 15:55	11/08/22 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/02/22 15:55*	*11/08/22 04:24*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/02/22 15:55*	*11/08/22 04:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00443	U	0.00443	0.00112	mg/Kg			11/08/22 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	**38.0**	**J**	55.5	16.7	mg/Kg			11/07/22 15:11	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	**19.9**	**J B**	55.5	16.7	mg/Kg	☼	11/04/22 14:07	11/05/22 00:54	1
Diesel Range Organics (Over C10-C28)	**18.1**	**J**	55.5	16.7	mg/Kg	☼	11/04/22 14:07	11/05/22 00:54	1
Oil Range Organics (Over C28-C36)	<55.5	U	55.5	16.7	mg/Kg	☼	11/04/22 14:07	11/05/22 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*110*		*70 - 130*	*11/04/22 14:07*	*11/05/22 00:54*	*1*
o-Terphenyl	*121*		*70 - 130*	*11/04/22 14:07*	*11/05/22 00:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3070**		27.7	2.19	mg/Kg	☼		11/03/22 09:49	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-8-4'-103122

Lab Sample ID: 880-21034-7
Date Collected: 10/31/22 12:15
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00217	U *-	0.00217	0.000418	mg/Kg	☼	11/02/22 15:55	11/08/22 04:45	1
Toluene	<0.00217	U	0.00217	0.000495	mg/Kg	☼	11/02/22 15:55	11/08/22 04:45	1
Ethylbenzene	<0.00217	U	0.00217	0.000613	mg/Kg	☼	11/02/22 15:55	11/08/22 04:45	1
m-Xylene & p-Xylene	<0.00434	U	0.00434	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 04:45	1
o-Xylene	<0.00217	U	0.00217	0.000373	mg/Kg	☼	11/02/22 15:55	11/08/22 04:45	1
Xylenes, Total	<0.00434	U	0.00434	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*11/02/22 15:55*	*11/08/22 04:45*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/02/22 15:55*	*11/08/22 04:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00434	U	0.00434	0.00110	mg/Kg			11/08/22 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	**20.1**	**J**	54.6	16.4	mg/Kg			11/07/22 15:11	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	**20.1**	**J B**	54.6	16.4	mg/Kg	☼	11/04/22 14:07	11/05/22 01:15	1
Diesel Range Organics (Over C10-C28)	<54.6	U	54.6	16.4	mg/Kg	☼	11/04/22 14:07	11/05/22 01:15	1
Oil Range Organics (Over C28-C36)	<54.6	U	54.6	16.4	mg/Kg	☼	11/04/22 14:07	11/05/22 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*11/04/22 14:07*	*11/05/22 01:15*	*1*
o-Terphenyl	*119*		*70 - 130*	*11/04/22 14:07*	*11/05/22 01:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2040**		27.3	2.16	mg/Kg	☼		11/03/22 09:54	5

Client Sample ID: B-9-4'-103122

Lab Sample ID: 880-21034-8
Date Collected: 10/31/22 12:20
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00216	U *-	0.00216	0.000417	mg/Kg	☼	11/02/22 15:55	11/08/22 05:05	1
Toluene	<0.00216	U	0.00216	0.000493	mg/Kg	☼	11/02/22 15:55	11/08/22 05:05	1
Ethylbenzene	<0.00216	U	0.00216	0.000611	mg/Kg	☼	11/02/22 15:55	11/08/22 05:05	1
m-Xylene & p-Xylene	<0.00433	U	0.00433	0.00109	mg/Kg	☼	11/02/22 15:55	11/08/22 05:05	1
o-Xylene	<0.00216	U	0.00216	0.000372	mg/Kg	☼	11/02/22 15:55	11/08/22 05:05	1
Xylenes, Total	<0.00433	U	0.00433	0.00109	mg/Kg	☼	11/02/22 15:55	11/08/22 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*11/02/22 15:55*	*11/08/22 05:05*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/02/22 15:55*	*11/08/22 05:05*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-9-4'-103122

Lab Sample ID: 880-21034-8
Date Collected: 10/31/22 12:20
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.2

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00433	U	0.00433	0.00109	mg/Kg			11/08/22 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	**16.5**	**J**	54.2	16.2	mg/Kg			11/07/22 15:11	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	<54.2	U	54.2	16.2	mg/Kg	☼	11/04/22 14:07	11/05/22 01:38	1
Diesel Range Organics (Over C10-C28)	**16.5**	**J**	54.2	16.2	mg/Kg	☼	11/04/22 14:07	11/05/22 01:38	1
OII Range Organics (Over C28-C36)	<54.2	U	54.2	16.2	mg/Kg	☼	11/04/22 14:07	11/05/22 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/04/22 14:07*	*11/05/22 01:38*	*1*
o-Terphenyl	*125*		*70 - 130*	*11/04/22 14:07*	*11/05/22 01:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3640**		27.3	2.16	mg/Kg	☼		11/03/22 09:59	5

Client Sample ID: B-10-4'-103122

Lab Sample ID: 880-21034-9
Date Collected: 10/31/22 12:30
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00212	U *-	0.00212	0.000409	mg/Kg	☼	11/02/22 15:55	11/08/22 05:25	1
Toluene	<0.00212	U	0.00212	0.000484	mg/Kg	☼	11/02/22 15:55	11/08/22 05:25	1
Ethylbenzene	<0.00212	U	0.00212	0.000600	mg/Kg	☼	11/02/22 15:55	11/08/22 05:25	1
m-Xylene & p-Xylene	<0.00424	U	0.00424	0.00107	mg/Kg	☼	11/02/22 15:55	11/08/22 05:25	1
o-Xylene	<0.00212	U	0.00212	0.000365	mg/Kg	☼	11/02/22 15:55	11/08/22 05:25	1
Xylenes, Total	<0.00424	U	0.00424	0.00107	mg/Kg	☼	11/02/22 15:55	11/08/22 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*11/02/22 15:55*	*11/08/22 05:25*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/02/22 15:55*	*11/08/22 05:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00424	U	0.00424	0.00107	mg/Kg			11/08/22 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	**38.9**	**J**	53.2	15.9	mg/Kg			11/07/22 15:11	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	**21.6**	**J B**	53.2	15.9	mg/Kg	☼	11/04/22 14:07	11/05/22 01:59	1
Diesel Range Organics (Over C10-C28)	**17.3**	**J**	53.2	15.9	mg/Kg	☼	11/04/22 14:07	11/05/22 01:59	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-10-4'-103122
Lab Sample ID: 880-21034-9
Date Collected: 10/31/22 12:30
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 93.9

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)	<53.2	U	53.2	15.9	mg/Kg	☼	11/04/22 14:07	11/05/22 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*11/04/22 14:07*	*11/05/22 01:59*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*11/04/22 14:07*	*11/05/22 01:59*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1670**		26.6	2.10	mg/Kg	☼		11/03/22 10:04	5

Client Sample ID: B-11-4'-103122
Lab Sample ID: 880-21034-10
Date Collected: 10/31/22 12:40
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00214	U *-	0.00214	0.000413	mg/Kg	☼	11/02/22 15:55	11/08/22 05:46	1
Toluene	<0.00214	U	0.00214	0.000489	mg/Kg	☼	11/02/22 15:55	11/08/22 05:46	1
Ethylbenzene	<0.00214	U	0.00214	0.000606	mg/Kg	☼	11/02/22 15:55	11/08/22 05:46	1
m-Xylene & p-Xylene	<0.00429	U	0.00429	0.00108	mg/Kg	☼	11/02/22 15:55	11/08/22 05:46	1
o-Xylene	<0.00214	U	0.00214	0.000369	mg/Kg	☼	11/02/22 15:55	11/08/22 05:46	1
Xylenes, Total	<0.00429	U	0.00429	0.00108	mg/Kg	☼	11/02/22 15:55	11/08/22 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/02/22 15:55*	*11/08/22 05:46*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/02/22 15:55*	*11/08/22 05:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00429	U	0.00429	0.00108	mg/Kg			11/08/22 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	**34.9**	**J**	53.8	16.1	mg/Kg			11/07/22 15:11	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	**18.5**	**J B**	53.8	16.1	mg/Kg	☼	11/04/22 14:07	11/05/22 02:21	1
Diesel Range Organics (Over C10-C28)	**16.4**	**J**	53.8	16.1	mg/Kg	☼	11/04/22 14:07	11/05/22 02:21	1
Oil Range Organics (Over C28-C36)	<53.8	U	53.8	16.1	mg/Kg	☼	11/04/22 14:07	11/05/22 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*11/04/22 14:07*	*11/05/22 02:21*	*1*
o-Terphenyl	*127*		*70 - 130*	*11/04/22 14:07*	*11/05/22 02:21*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3330**		26.7	2.11	mg/Kg	☼		11/03/22 10:09	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-12-4'-103122
Date Collected: 10/31/22 12:45
Date Received: 11/02/22 11:46

Lab Sample ID: 880-21034-11
Matrix: Solid
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00217	U *-	0.00217	0.000418	mg/Kg	☼	11/02/22 15:55	11/08/22 07:36	1
Toluene	<0.00217	U	0.00217	0.000496	mg/Kg	☼	11/02/22 15:55	11/08/22 07:36	1
Ethylbenzene	<0.00217	U	0.00217	0.000614	mg/Kg	☼	11/02/22 15:55	11/08/22 07:36	1
m-Xylene & p-Xylene	<0.00435	U	0.00435	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 07:36	1
o-Xylene	<0.00217	U	0.00217	0.000374	mg/Kg	☼	11/02/22 15:55	11/08/22 07:36	1
Xylenes, Total	<0.00435	U	0.00435	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 07:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/02/22 15:55*	*11/08/22 07:36*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/02/22 15:55*	*11/08/22 07:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00435	U	0.00435	0.00110	mg/Kg			11/08/22 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	**40.6**	**J**	54.2	16.3	mg/Kg			11/07/22 15:11	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	**21.7**	**J B**	54.2	16.3	mg/Kg	☼	11/04/22 14:07	11/05/22 03:05	1
Diesel Range Organics (Over C10-C28)	**18.9**	**J**	54.2	16.3	mg/Kg	☼	11/04/22 14:07	11/05/22 03:05	1
Oil Range Organics (Over C28-C36)	<54.2	U	54.2	16.3	mg/Kg	☼	11/04/22 14:07	11/05/22 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*11/04/22 14:07*	*11/05/22 03:05*	*1*
o-Terphenyl	*125*		*70 - 130*	*11/04/22 14:07*	*11/05/22 03:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2760**		27.0	2.13	mg/Kg	☼		11/03/22 10:14	5

Client Sample ID: B-13-4'-103122
Date Collected: 10/31/22 12:50
Date Received: 11/02/22 11:46

Lab Sample ID: 880-21034-12
Matrix: Solid
Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00217	U *-	0.00217	0.000418	mg/Kg	☼	11/02/22 15:55	11/08/22 07:56	1
Toluene	<0.00217	U	0.00217	0.000495	mg/Kg	☼	11/02/22 15:55	11/08/22 07:56	1
Ethylbenzene	<0.00217	U	0.00217	0.000614	mg/Kg	☼	11/02/22 15:55	11/08/22 07:56	1
m-Xylene & p-Xylene	<0.00435	U	0.00435	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 07:56	1
o-Xylene	<0.00217	U	0.00217	0.000374	mg/Kg	☼	11/02/22 15:55	11/08/22 07:56	1
Xylenes, Total	<0.00435	U	0.00435	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 07:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/02/22 15:55*	*11/08/22 07:56*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/02/22 15:55*	*11/08/22 07:56*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-13-4'-103122

Lab Sample ID: 880-21034-12
Date Collected: 10/31/22 12:50
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 91.8

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00435	U	0.00435	0.00110	mg/Kg			11/08/22 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	**38.6**	**J**	54.3	16.3	mg/Kg			11/07/22 15:11	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	**21.4**	**J B**	54.3	16.3	mg/Kg	☼	11/04/22 14:07	11/05/22 03:27	1
Diesel Range Organics (Over C10-C28)	**17.2**	**J**	54.3	16.3	mg/Kg	☼	11/04/22 14:07	11/05/22 03:27	1
Oil Range Organics (Over C28-C36)	<54.3	U	54.3	16.3	mg/Kg	☼	11/04/22 14:07	11/05/22 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*11/04/22 14:07*	*11/05/22 03:27*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*11/04/22 14:07*	*11/05/22 03:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1440**		27.2	2.15	mg/Kg	☼		11/03/22 10:29	5

Client Sample ID: B-14-4'-103122

Lab Sample ID: 880-21034-13
Date Collected: 10/31/22 12:55
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00215	U *-	0.00215	0.000414	mg/Kg	☼	11/02/22 15:55	11/08/22 08:16	1
Toluene	<0.00215	U	0.00215	0.000490	mg/Kg	☼	11/02/22 15:55	11/08/22 08:16	1
Ethylbenzene	<0.00215	U	0.00215	0.000607	mg/Kg	☼	11/02/22 15:55	11/08/22 08:16	1
m-Xylene & p-Xylene	<0.00430	U	0.00430	0.00109	mg/Kg	☼	11/02/22 15:55	11/08/22 08:16	1
o-Xylene	<0.00215	U	0.00215	0.000370	mg/Kg	☼	11/02/22 15:55	11/08/22 08:16	1
Xylenes, Total	<0.00430	U	0.00430	0.00109	mg/Kg	☼	11/02/22 15:55	11/08/22 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/02/22 15:55*	*11/08/22 08:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/02/22 15:55*	*11/08/22 08:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00430	U	0.00430	0.00109	mg/Kg			11/08/22 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	**38.6**	**J**	53.9	16.2	mg/Kg			11/07/22 15:11	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	**22.4**	**J B**	53.9	16.2	mg/Kg	☼	11/04/22 14:07	11/05/22 03:48	1
Diesel Range Organics (Over C10-C28)	**16.2**	**J**	53.9	16.2	mg/Kg	☼	11/04/22 14:07	11/05/22 03:48	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-14-4'-103122

Lab Sample ID: 880-21034-13
Date Collected: 10/31/22 12:55
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.7

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)	<53.9	U	53.9	16.2	mg/Kg	☼	11/04/22 14:07	11/05/22 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*11/04/22 14:07*	*11/05/22 03:48*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*11/04/22 14:07*	*11/05/22 03:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2590**		26.9	2.12	mg/Kg	☼		11/03/22 10:34	5

Client Sample ID: B-15-4'-103122

Lab Sample ID: 880-21034-14
Date Collected: 10/31/22 13:00
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00222	U *-	0.00222	0.000426	mg/Kg	☼	11/02/22 15:55	11/08/22 08:37	1
Toluene	<0.00222	U	0.00222	0.000505	mg/Kg	☼	11/02/22 15:55	11/08/22 08:37	1
Ethylbenzene	<0.00222	U	0.00222	0.000626	mg/Kg	☼	11/02/22 15:55	11/08/22 08:37	1
m-Xylene & p-Xylene	<0.00443	U	0.00443	0.00112	mg/Kg	☼	11/02/22 15:55	11/08/22 08:37	1
o-Xylene	<0.00222	U	0.00222	0.000381	mg/Kg	☼	11/02/22 15:55	11/08/22 08:37	1
Xylenes, Total	<0.00443	U	0.00443	0.00112	mg/Kg	☼	11/02/22 15:55	11/08/22 08:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/02/22 15:55*	*11/08/22 08:37*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/02/22 15:55*	*11/08/22 08:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00443	U	0.00443	0.00112	mg/Kg			11/08/22 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	**42.5**	**J**	55.6	16.7	mg/Kg			11/07/22 15:11	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	**24.5**	**J B**	55.6	16.7	mg/Kg	☼	11/04/22 14:07	11/05/22 04:10	1
Diesel Range Organics (Over C10-C28)	**18.0**	**J**	55.6	16.7	mg/Kg	☼	11/04/22 14:07	11/05/22 04:10	1
Oil Range Organics (Over C28-C36)	<55.6	U	55.6	16.7	mg/Kg	☼	11/04/22 14:07	11/05/22 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*11/04/22 14:07*	*11/05/22 04:10*	*1*
o-Terphenyl	*128*		*70 - 130*	*11/04/22 14:07*	*11/05/22 04:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2580**		27.6	2.18	mg/Kg	☼		11/03/22 10:49	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-16-4'-103122

Lab Sample ID: 880-21034-15
Date Collected: 10/31/22 13:05
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00217	U *-	0.00217	0.000418	mg/Kg	☼	11/02/22 15:55	11/08/22 08:57	1
Toluene	<0.00217	U	0.00217	0.000495	mg/Kg	☼	11/02/22 15:55	11/08/22 08:57	1
Ethylbenzene	<0.00217	U	0.00217	0.000613	mg/Kg	☼	11/02/22 15:55	11/08/22 08:57	1
m-Xylene & p-Xylene	<0.00434	U	0.00434	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 08:57	1
o-Xylene	<0.00217	U	0.00217	0.000373	mg/Kg	☼	11/02/22 15:55	11/08/22 08:57	1
Xylenes, Total	<0.00434	U	0.00434	0.00110	mg/Kg	☼	11/02/22 15:55	11/08/22 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*11/02/22 15:55*	*11/08/22 08:57*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/02/22 15:55*	*11/08/22 08:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00434	U	0.00434	0.00110	mg/Kg			11/08/22 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	**36.9**	**J**	54.1	16.2	mg/Kg			11/07/22 15:11	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	**20.1**	**J B**	54.1	16.2	mg/Kg	☼	11/04/22 14:07	11/05/22 04:32	1
Diesel Range Organics (Over C10-C28)	**16.8**	**J**	54.1	16.2	mg/Kg	☼	11/04/22 14:07	11/05/22 04:32	1
Oil Range Organics (Over C28-C36)	<54.1	U	54.1	16.2	mg/Kg	☼	11/04/22 14:07	11/05/22 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*11/04/22 14:07*	*11/05/22 04:32*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*11/04/22 14:07*	*11/05/22 04:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2380**		27.3	2.16	mg/Kg	☼		11/03/22 10:53	5

Client Sample ID: SW-3-0'-4'-102522

Lab Sample ID: 890-3298-1
Date Collected: 10/25/22 14:50
Matrix: Solid
Date Received: 10/26/22 16:46

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		10/31/22 11:51	11/01/22 07:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/31/22 11:51	11/01/22 07:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/31/22 11:51	11/01/22 07:07	1
m-Xylene & p-Xylene	<0.00404	U *-	0.00404		mg/Kg		10/31/22 11:51	11/01/22 07:07	1
o-Xylene	<0.00202	U *1	0.00202		mg/Kg		10/31/22 11:51	11/01/22 07:07	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/31/22 11:51	11/01/22 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*10/31/22 11:51*	*11/01/22 07:07*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/31/22 11:51*	*11/01/22 07:07*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-3-0'-4'-102522

Lab Sample ID: 890-3298-1
Matrix: Solid
Date Collected: 10/25/22 14:50
Date Received: 10/26/22 16:46

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			11/01/22 09:15	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			10/31/22 12:28	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	<49.8	U *- F1	49.8		mg/Kg		10/28/22 15:48	10/30/22 22:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U *- F1 F2	49.8		mg/Kg		10/28/22 15:48	10/30/22 22:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/28/22 15:48	10/30/22 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane				*10/28/22 15:48*	*10/30/22 22:07*	*1*
o-Terphenyl				*10/28/22 15:48*	*10/30/22 22:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		4.97		mg/Kg			10/28/22 13:47	1

Client Sample ID: TP-6-0'-4'-102622

Lab Sample ID: 890-3298-2
Matrix: Solid
Date Collected: 10/26/22 13:30
Date Received: 10/26/22 16:46

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		10/31/22 11:51	11/01/22 08:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 11:51	11/01/22 08:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 11:51	11/01/22 08:33	1
m-Xylene & p-Xylene	<0.00400	U *-	0.00400		mg/Kg		10/31/22 11:51	11/01/22 08:33	1
o-Xylene	<0.00200	U *1	0.00200		mg/Kg		10/31/22 11:51	11/01/22 08:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/31/22 11:51	11/01/22 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*10/31/22 11:51*	*11/01/22 08:33*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/31/22 11:51*	*11/01/22 08:33*	*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			11/01/22 09:15	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			10/31/22 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		10/28/22 15:48	10/30/22 23:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		10/28/22 15:48	10/30/22 23:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: TP-6-0'-4'-102622

Lab Sample ID: 890-3298-2
Matrix: Solid
Date Collected: 10/26/22 13:30
Date Received: 10/26/22 16:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/28/22 15:48	10/30/22 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane				*10/28/22 15:48*	*10/30/22 23:10*	*1*
o-Terphenyl				*10/28/22 15:48*	*10/30/22 23:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1800**		25.1		mg/Kg			10/28/22 14:07	5

Client Sample ID: SW-5-0'-4-102722

Lab Sample ID: 890-3318-1
Matrix: Solid
Date Collected: 10/27/22 15:30
Date Received: 10/28/22 11:30

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		10/31/22 13:44	11/01/22 19:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 19:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 19:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/31/22 13:44	11/01/22 19:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 19:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/31/22 13:44	11/01/22 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/31/22 13:44*	*11/01/22 19:05*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*10/31/22 13:44*	*11/01/22 19:05*	*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			11/02/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/01/22 13:05	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	50.0		mg/Kg		10/31/22 10:25	10/31/22 16:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		10/31/22 10:25	10/31/22 16:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/31/22 10:25	10/31/22 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*10/31/22 10:25*	*10/31/22 16:00*	*1*
o-Terphenyl	*95*		*70 - 130*	*10/31/22 10:25*	*10/31/22 16:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**		4.99		mg/Kg			10/31/22 13:29	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-6-0'-4'-102722

Lab Sample ID: 890-3318-2
Matrix: Solid
Date Collected: 10/27/22 15:35
Date Received: 10/28/22 11:30

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		10/31/22 13:44	11/01/22 19:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 19:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 19:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 19:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/31/22 13:44	11/01/22 19:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/31/22 13:44	11/01/22 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/31/22 13:44*	*11/01/22 19:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/31/22 13:44*	*11/01/22 19:26*	*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			11/02/22 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/01/22 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/31/22 10:25	10/31/22 16:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		10/31/22 10:25	10/31/22 16:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/31/22 10:25	10/31/22 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*10/31/22 10:25*	*10/31/22 16:22*	*1*
o-Terphenyl	*96*		*70 - 130*	*10/31/22 10:25*	*10/31/22 16:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2330**		24.8		mg/Kg			10/31/22 13:33	5

Client Sample ID: SW-1-0-4-110122

Lab Sample ID: 890-3362-1
Matrix: Solid
Date Collected: 11/01/22 11:10
Date Received: 11/02/22 12:09

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		11/03/22 12:53	11/04/22 12:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 12:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 12:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/03/22 12:53	11/04/22 12:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 12:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/03/22 12:53	11/04/22 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*175*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 12:00*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*11/03/22 12:53*	*11/04/22 12:00*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-1-0-4-110122

Lab Sample ID: 890-3362-1
Matrix: Solid
Date Collected: 11/01/22 11:10
Date Received: 11/02/22 12:09

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			11/04/22 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 12:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 12:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*11/03/22 15:32*	*11/04/22 12:41*	*1*
o-Terphenyl	*93*		*70 - 130*	*11/03/22 15:32*	*11/04/22 12:41*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**283**		4.98		mg/Kg			11/03/22 15:33	1

Client Sample ID: SW-2-0-4-110122

Lab Sample ID: 890-3362-2
Matrix: Solid
Date Collected: 11/01/22 11:15
Date Received: 11/02/22 12:09

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		11/03/22 12:53	11/04/22 12:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 12:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 12:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 12:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 12:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*193*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 12:27*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*11/03/22 12:53*	*11/04/22 12:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/04/22 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/03/22 15:32	11/04/22 13:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/22 15:32	11/04/22 13:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-2-0-4-110122

Lab Sample ID: 890-3362-2
Matrix: Solid
Date Collected: 11/01/22 11:15
Date Received: 11/02/22 12:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/22 15:32	11/04/22 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*11/03/22 15:32*	*11/04/22 13:45*	*1*
o-Terphenyl	*91*		*70 - 130*	*11/03/22 15:32*	*11/04/22 13:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**483**		4.95		mg/Kg			11/03/22 15:55	1

Client Sample ID: SW-9-0-4-110122

Lab Sample ID: 890-3362-3
Matrix: Solid
Date Collected: 11/01/22 11:20
Date Received: 11/02/22 12:09

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		11/03/22 12:53	11/04/22 12:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 12:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 12:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 12:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 12:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*180*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 12:53*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*11/03/22 12:53*	*11/04/22 12:53*	*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			11/04/22 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/07/22 15:11	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		11/03/22 15:32	11/04/22 14:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 14:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/03/22 15:32*	*11/04/22 14:07*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/03/22 15:32*	*11/04/22 14:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**418**		25.1		mg/Kg			11/03/22 16:02	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-29-4-110122
Date Collected: 11/01/22 11:25
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 13:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 13:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 13:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 13:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 13:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*181*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 13:19*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*11/03/22 12:53*	*11/04/22 13:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/04/22 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 14:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*11/03/22 15:32*	*11/04/22 14:28*	*1*
o-Terphenyl	*117*		*70 - 130*	*11/03/22 15:32*	*11/04/22 14:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**519**		4.99		mg/Kg			11/03/22 16:10	1

Client Sample ID: B-30-4-110122
Date Collected: 11/01/22 11:30
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-5
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		mg/Kg		11/03/22 12:53	11/04/22 13:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 13:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 13:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/03/22 12:53	11/04/22 13:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 13:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/03/22 12:53	11/04/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*180*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 13:46*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*11/03/22 12:53*	*11/04/22 13:46*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-30-4-110122
Date Collected: 11/01/22 11:30
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-5
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/04/22 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 14:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 14:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*11/03/22 15:32*	*11/04/22 14:49*	*1*
o-Terphenyl	*109*		*70 - 130*	*11/03/22 15:32*	*11/04/22 14:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**790**		4.97		mg/Kg			11/03/22 16:17	1

Client Sample ID: B-31-4-110122
Date Collected: 11/01/22 11:35
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-6
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		mg/Kg		11/03/22 12:53	11/04/22 14:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 14:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 14:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/03/22 12:53	11/04/22 14:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 14:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/03/22 12:53	11/04/22 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*186*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 14:12*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/03/22 12:53*	*11/04/22 14:12*	*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			11/04/22 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 15:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 15:11	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-31-4-110122
Date Collected: 11/01/22 11:35
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-6
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)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/03/22 15:32*	*11/04/22 15:11*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/03/22 15:32*	*11/04/22 15:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1660**		24.8		mg/Kg			11/03/22 16:38	5

Client Sample ID: B-32-4-11012
Date Collected: 11/01/22 11:40
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-7
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		11/03/22 12:53	11/04/22 14:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 14:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 14:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 14:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 14:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*198*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 14:38*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/03/22 12:53*	*11/04/22 14:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/04/22 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 15:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 15:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/03/22 15:32*	*11/04/22 15:32*	*1*
o-Terphenyl	*113*		*70 - 130*	*11/03/22 15:32*	*11/04/22 15:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		25.0		mg/Kg			11/03/22 16:46	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-33-4-110122
Date Collected: 11/01/22 11:45
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-8
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		mg/Kg		11/03/22 12:53	11/04/22 15:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/03/22 12:53	11/04/22 15:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/03/22 12:53	11/04/22 15:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/03/22 12:53	11/04/22 15:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/03/22 12:53	11/04/22 15:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/03/22 12:53	11/04/22 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*197*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 15:04*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*11/03/22 12:53*	*11/04/22 15:04*	*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			11/04/22 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/07/22 15:11	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		11/03/22 15:32	11/04/22 15:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 15:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/03/22 15:32*	*11/04/22 15:53*	*1*
o-Terphenyl	*102*		*70 - 130*	*11/03/22 15:32*	*11/04/22 15:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1930**		25.2		mg/Kg			11/03/22 16:53	5

Client Sample ID: B-34-4-110122
Date Collected: 11/01/22 11:50
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-9
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		11/03/22 12:53	11/04/22 15:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 15:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 15:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 15:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 15:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*190*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 15:30*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*11/03/22 12:53*	*11/04/22 15:30*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-34-4-110122

Lab Sample ID: 890-3362-9
Matrix: Solid
Date Collected: 11/01/22 11:50
Date Received: 11/02/22 12:09

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			11/04/22 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 16:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 16:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/03/22 15:32*	*11/04/22 16:15*	*1*
o-Terphenyl	*102*		*70 - 130*	*11/03/22 15:32*	*11/04/22 16:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		25.0		mg/Kg			11/03/22 17:00	5

Client Sample ID: SW-7-0-4-110122

Lab Sample ID: 890-3362-10
Matrix: Solid
Date Collected: 11/01/22 13:20
Date Received: 11/02/22 12:09

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		11/03/22 12:53	11/04/22 15:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 15:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 15:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/03/22 12:53	11/04/22 15:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 15:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/03/22 12:53	11/04/22 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*184*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 15:56*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*11/03/22 12:53*	*11/04/22 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			11/04/22 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/07/22 15:11	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		11/03/22 15:32	11/04/22 16:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 16:36	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-7-0-4-110122
Date Collected: 11/01/22 13:20
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*11/03/22 15:32*	*11/04/22 16:36*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/03/22 15:32*	*11/04/22 16:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**517**		5.00		mg/Kg			11/03/22 17:07	1

Client Sample ID: SW-8-0-4-110122
Date Collected: 11/01/22 13:25
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-11
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		11/03/22 12:53	11/04/22 17:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/03/22 12:53	11/04/22 17:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/03/22 12:53	11/04/22 17:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/03/22 12:53	11/04/22 17:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/03/22 12:53	11/04/22 17:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/03/22 12:53	11/04/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 17:40*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*11/03/22 12:53*	*11/04/22 17:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/07/22 15:11	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		11/03/22 15:32	11/04/22 17:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 17:19	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*11/03/22 15:32*	*11/04/22 17:19*	*1*
o-Terphenyl	*104*		*70 - 130*	*11/03/22 15:32*	*11/04/22 17:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**567**		4.99		mg/Kg			11/09/22 13:48	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-17-4-110122

Lab Sample ID: 890-3362-12
Matrix: Solid
Date Collected: 11/01/22 13:30
Date Received: 11/02/22 12:09

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		11/03/22 12:53	11/04/22 18:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 18:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 18:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 18:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 18:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*199*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 18:06*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*11/03/22 12:53*	*11/04/22 18:06*	*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			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 17:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 17:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*11/03/22 15:32*	*11/04/22 17:40*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/03/22 15:32*	*11/04/22 17:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4200**		25.2		mg/Kg			11/03/22 17:36	5

Client Sample ID: B-18-4-110122

Lab Sample ID: 890-3362-13
Matrix: Solid
Date Collected: 11/01/22 13:35
Date Received: 11/02/22 12:09

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		11/03/22 12:53	11/04/22 18:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 18:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 18:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 18:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 18:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 18:32*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*11/03/22 12:53*	*11/04/22 18:32*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-18-4-110122
Date Collected: 11/01/22 13:35
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-13
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			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 18:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*11/03/22 15:32*	*11/04/22 18:02*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/03/22 15:32*	*11/04/22 18:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4010**		24.9		mg/Kg			11/03/22 17:44	5

Client Sample ID: B-19-4-110122
Date Collected: 11/01/22 13:40
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-14
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		11/03/22 12:53	11/04/22 18:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 18:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 18:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 18:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 18:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*193*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 18:59*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/03/22 12:53*	*11/04/22 18:59*	*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			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 18:23	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-19-4-110122
Lab Sample ID: 890-3362-14
Date Collected: 11/01/22 13:40
Matrix: Solid
Date Received: 11/02/22 12:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*11/03/22 15:32*	*11/04/22 18:23*	*1*
o-Terphenyl	*107*		*70 - 130*	*11/03/22 15:32*	*11/04/22 18:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1410**		25.0		mg/Kg			11/03/22 18:05	5

Client Sample ID: B-20-4-110122
Lab Sample ID: 890-3362-15
Date Collected: 11/01/22 13:45
Matrix: Solid
Date Received: 11/02/22 12:09

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		11/03/22 12:53	11/04/22 19:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 19:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 19:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/03/22 12:53	11/04/22 19:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/03/22 12:53	11/04/22 19:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/03/22 12:53	11/04/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*195*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 19:25*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*11/03/22 12:53*	*11/04/22 19:25*	*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			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/03/22 15:32	11/04/22 18:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/22 15:32	11/04/22 18:44	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/22 15:32	11/04/22 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*11/03/22 15:32*	*11/04/22 18:44*	*1*
o-Terphenyl	*108*		*70 - 130*	*11/03/22 15:32*	*11/04/22 18:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**994**		4.95		mg/Kg			11/03/22 18:12	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-21-4-110122
Date Collected: 11/01/22 13:50
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-16
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		11/03/22 12:53	11/04/22 19:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 19:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 19:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 19:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 19:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*198*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 19:52*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*11/03/22 12:53*	*11/04/22 19:52*	*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		mg/Kg			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/07/22 15:11	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		11/03/22 15:32	11/04/22 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 19:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/22 15:32	11/04/22 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*11/03/22 15:32*	*11/04/22 19:05*	*1*
o-Terphenyl	*114*		*70 - 130*	*11/03/22 15:32*	*11/04/22 19:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4120**		25.3		mg/Kg			11/03/22 18:20	5

Client Sample ID: B-22-4-110122
Date Collected: 11/01/22 13:50
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-17
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		11/03/22 12:53	11/04/22 20:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 20:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 20:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 20:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/03/22 12:53	11/04/22 20:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/03/22 12:53	11/04/22 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*201*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 20:18*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/03/22 12:53*	*11/04/22 20:18*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-22-4-110122

Lab Sample ID: 890-3362-17
Matrix: Solid
Date Collected: 11/01/22 13:50
Date Received: 11/02/22 12:09

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			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 19:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 19:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*11/03/22 15:32*	*11/04/22 19:27*	*1*
o-Terphenyl	*117*		*70 - 130*	*11/03/22 15:32*	*11/04/22 19:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3430**		25.0		mg/Kg			11/03/22 18:27	5

Client Sample ID: B-23-4-110211

Lab Sample ID: 890-3362-18
Matrix: Solid
Date Collected: 11/01/22 14:00
Date Received: 11/02/22 12:09

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		11/03/22 12:53	11/04/22 20:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 20:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 20:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/03/22 12:53	11/04/22 20:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 20:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/03/22 12:53	11/04/22 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*202*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 20:45*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*11/03/22 12:53*	*11/04/22 20:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 19:48	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-23-4-110211
Date Collected: 11/01/22 14:00
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*11/03/22 15:32*	*11/04/22 19:48*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/03/22 15:32*	*11/04/22 19:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3840**		24.9		mg/Kg			11/03/22 18:34	5

Client Sample ID: B-24-4-110122
Date Collected: 11/01/22 14:05
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-19
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		11/03/22 12:53	11/04/22 21:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 21:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 21:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 21:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 21:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/03/22 12:53	11/04/22 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*201*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 21:11*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*11/03/22 12:53*	*11/04/22 21:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 20:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 20:10	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*11/03/22 15:32*	*11/04/22 20:10*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/03/22 15:32*	*11/04/22 20:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2710**		24.8		mg/Kg			11/03/22 18:41	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-25-4-110122
Date Collected: 11/01/22 14:10
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-20
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		11/03/22 12:53	11/04/22 21:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/03/22 12:53	11/04/22 21:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/03/22 12:53	11/04/22 21:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/03/22 12:53	11/04/22 21:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/03/22 12:53	11/04/22 21:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/03/22 12:53	11/04/22 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*192*	*S1+*	*70 - 130*	*11/03/22 12:53*	*11/04/22 21:37*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*11/03/22 12:53*	*11/04/22 21:37*	*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			11/07/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 20:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 20:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/03/22 15:32*	*11/04/22 20:31*	*1*
o-Terphenyl	*103*		*70 - 130*	*11/03/22 15:32*	*11/04/22 20:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2210**		24.8		mg/Kg			11/03/22 18:49	5

Client Sample ID: B-26-4-110222
Date Collected: 11/02/22 09:10
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-21
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		11/03/22 14:12	11/04/22 21:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 14:12	11/04/22 21:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 14:12	11/04/22 21:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/03/22 14:12	11/04/22 21:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 14:12	11/04/22 21:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/03/22 14:12	11/04/22 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*11/03/22 14:12*	*11/04/22 21:32*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/03/22 14:12*	*11/04/22 21:32*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-26-4-110222
Lab Sample ID: 890-3362-21
Date Collected: 11/02/22 09:10
Matrix: Solid
Date Received: 11/02/22 12:09

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			11/07/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 14:00	11/05/22 00:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 14:00	11/05/22 00:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 14:00	11/05/22 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/03/22 14:00*	*11/05/22 00:32*	*1*
o-Terphenyl	*88*		*70 - 130*	*11/03/22 14:00*	*11/05/22 00:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**426**		49.6		mg/Kg			11/03/22 14:47	10

Client Sample ID: b-27-4-110222
Lab Sample ID: 890-3362-22
Date Collected: 11/02/22 09:15
Matrix: Solid
Date Received: 11/02/22 12:09

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		11/03/22 14:12	11/04/22 21:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/03/22 14:12	11/04/22 21:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/03/22 14:12	11/04/22 21:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/03/22 14:12	11/04/22 21:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/03/22 14:12	11/04/22 21:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/03/22 14:12	11/04/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/03/22 14:12*	*11/04/22 21:53*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/03/22 14:12*	*11/04/22 21:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/07/22 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/07/22 11:43	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		11/03/22 14:00	11/05/22 00:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/22 14:00	11/05/22 00:54	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: b-27-4-110222
Lab Sample ID: 890-3362-22
Date Collected: 11/02/22 09:15
Matrix: Solid
Date Received: 11/02/22 12:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/22 14:00	11/05/22 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/03/22 14:00*	*11/05/22 00:54*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/03/22 14:00*	*11/05/22 00:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1340**	**F1**	49.8		mg/Kg			11/03/22 14:51	10

Client Sample ID: B-28-4-110222
Lab Sample ID: 890-3367-1
Date Collected: 11/02/22 13:05
Matrix: Solid
Date Received: 11/02/22 16:52

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		11/07/22 13:38	11/08/22 16:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 16:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 16:56	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		11/07/22 13:38	11/08/22 16:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 16:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/22 13:38	11/08/22 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*11/07/22 13:38*	*11/08/22 16:56*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/07/22 13:38*	*11/08/22 16:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/22 11:15	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			11/07/22 11:56	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		mg/Kg		11/04/22 13:31	11/05/22 16:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/04/22 13:31	11/05/22 16:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/04/22 13:31	11/05/22 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*11/04/22 13:31*	*11/05/22 16:21*	*1*
o-Terphenyl	*100*		*70 - 130*	*11/04/22 13:31*	*11/05/22 16:21*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		5.00		mg/Kg			11/08/22 15:55	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-35-4-110222

Lab Sample ID: 890-3367-2
Matrix: Solid
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

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		11/07/22 13:38	11/08/22 17:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 17:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 17:17	1
m-Xylene & p-Xylene	<0.00401	U *-	0.00401		mg/Kg		11/07/22 13:38	11/08/22 17:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 17:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/07/22 13:38	11/08/22 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/07/22 13:38*	*11/08/22 17:17*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/07/22 13:38*	*11/08/22 17:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/22 11:15	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			11/07/22 11:56	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		mg/Kg		11/04/22 13:31	11/05/22 17:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/04/22 13:31	11/05/22 17:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/04/22 13:31	11/05/22 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/04/22 13:31*	*11/05/22 17:04*	*1*
o-Terphenyl	*91*		*70 - 130*	*11/04/22 13:31*	*11/05/22 17:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**249**		4.99		mg/Kg			11/08/22 16:10	1

Client Sample ID: B-36-4-110222

Lab Sample ID: 890-3367-3
Matrix: Solid
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

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		11/07/22 13:38	11/08/22 17:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/07/22 13:38	11/08/22 17:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/07/22 13:38	11/08/22 17:38	1
m-Xylene & p-Xylene	<0.00403	U *-	0.00403		mg/Kg		11/07/22 13:38	11/08/22 17:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/07/22 13:38	11/08/22 17:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/07/22 13:38	11/08/22 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*11/07/22 13:38*	*11/08/22 17:38*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/07/22 13:38*	*11/08/22 17:38*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-36-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-3
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/09/22 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/04/22 13:31*	*11/05/22 17:25*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/04/22 13:31*	*11/05/22 17:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**161**		4.95		mg/Kg			11/08/22 16:15	1

Client Sample ID: B-37-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-4
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		mg/Kg		11/07/22 13:38	11/08/22 17:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 17:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 17:59	1
m-Xylene & p-Xylene	<0.00401	U *-	0.00401		mg/Kg		11/07/22 13:38	11/08/22 17:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 17:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/07/22 13:38	11/08/22 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/07/22 13:38*	*11/08/22 17:59*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*11/07/22 13:38*	*11/08/22 17:59*	*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			11/09/22 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 17:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-37-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-4
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		mg/Kg		11/04/22 13:31	11/05/22 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/04/22 13:31*	*11/05/22 17:46*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/04/22 13:31*	*11/05/22 17:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.40**		0.0501		mg/Kg			11/08/22 16:20	1

Client Sample ID: B-38-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 18:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 18:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 18:19	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		11/07/22 13:38	11/08/22 18:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 18:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/07/22 13:38	11/08/22 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/07/22 13:38*	*11/08/22 18:19*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/07/22 13:38*	*11/08/22 18:19*	*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			11/09/22 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 18:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 18:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/04/22 13:31*	*11/05/22 18:07*	*1*
o-Terphenyl	*91*		*70 - 130*	*11/04/22 13:31*	*11/05/22 18:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**189**		4.98		mg/Kg			11/08/22 16:25	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-39-4-110222

Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-6
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		11/07/22 13:38	11/08/22 18:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 18:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 18:40	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		11/07/22 13:38	11/08/22 18:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 18:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/22 13:38	11/08/22 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*11/07/22 13:38*	*11/08/22 18:40*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/07/22 13:38*	*11/08/22 18:40*	*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			11/09/22 11:15	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			11/07/22 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/04/22 13:31	11/05/22 18:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/04/22 13:31	11/05/22 18:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/04/22 13:31	11/05/22 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/04/22 13:31*	*11/05/22 18:28*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/04/22 13:31*	*11/05/22 18:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		4.97		mg/Kg			11/08/22 16:40	1

Client Sample ID: B-40-4-110222

Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-7
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		11/07/22 13:38	11/08/22 19:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 19:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 19:01	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		11/07/22 13:38	11/08/22 19:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 19:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/07/22 13:38	11/08/22 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*11/07/22 13:38*	*11/08/22 19:01*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*11/07/22 13:38*	*11/08/22 19:01*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-40-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-7
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/22 11:15	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			11/07/22 11:56	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		mg/Kg		11/04/22 13:31	11/05/22 18:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/04/22 13:31	11/05/22 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/04/22 13:31	11/05/22 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*11/04/22 13:31*	*11/05/22 18:49*	*1*
o-Terphenyl	*110*		*70 - 130*	*11/04/22 13:31*	*11/05/22 18:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**		4.96		mg/Kg			11/08/22 16:45	1

Client Sample ID: B-41-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 19:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 19:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 19:21	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		11/07/22 13:38	11/08/22 19:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/07/22 13:38	11/08/22 19:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/07/22 13:38	11/08/22 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/07/22 13:38*	*11/08/22 19:21*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*11/07/22 13:38*	*11/08/22 19:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/22 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 19:11	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-41-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-8
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		mg/Kg		11/04/22 13:31	11/05/22 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*11/04/22 13:31*	*11/05/22 19:11*	*1*
o-Terphenyl	*109*		*70 - 130*	*11/04/22 13:31*	*11/05/22 19:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**212**		5.00		mg/Kg			11/08/22 16:50	1

Client Sample ID: B-42-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 19:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 19:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 19:42	1
m-Xylene & p-Xylene	<0.00401	U *-	0.00401		mg/Kg		11/07/22 13:38	11/08/22 19:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 19:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/07/22 13:38	11/08/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/07/22 13:38*	*11/08/22 19:42*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*11/07/22 13:38*	*11/08/22 19:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/22 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/07/22 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 19:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 19:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/04/22 13:31*	*11/05/22 19:32*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/04/22 13:31*	*11/05/22 19:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		4.99		mg/Kg			11/08/22 16:55	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-6A-0-4-110322

Lab Sample ID: 890-3387-1
Matrix: Solid
Date Collected: 11/03/22 10:00
Date Received: 11/04/22 12:28
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/12/22 22:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/12/22 22:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/12/22 22:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/09/22 15:06	11/12/22 22:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/12/22 22:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/09/22 15:06	11/12/22 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*11/09/22 15:06*	*11/12/22 22:28*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/09/22 15:06*	*11/12/22 22:28*	*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			11/14/22 12:31	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			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 21:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 21:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*11/07/22 16:54*	*11/10/22 21:46*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/07/22 16:54*	*11/10/22 21:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.9**		5.04		mg/Kg			11/07/22 11:14	1

Client Sample ID: SW-11-0-4-110322

Lab Sample ID: 890-3387-2
Matrix: Solid
Date Collected: 11/03/22 10:05
Date Received: 11/04/22 12:28
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/12/22 22:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/12/22 22:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/12/22 22:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:06	11/12/22 22:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/12/22 22:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:06	11/12/22 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:06*	*11/12/22 22:54*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-11-0-4-110322

Lab Sample ID: 890-3387-2
Matrix: Solid
Date Collected: 11/03/22 10:05
Date Received: 11/04/22 12:28
Sample Depth: 0-4'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/09/22 15:06*	*11/12/22 22:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	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	<49.8	U	49.8		mg/Kg		11/07/22 16:54	11/10/22 22:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/07/22 16:54	11/10/22 22:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/07/22 16:54	11/10/22 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/07/22 16:54*	*11/10/22 22:49*	*1*
o-Terphenyl	*86*		*70 - 130*	*11/07/22 16:54*	*11/10/22 22:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		4.95		mg/Kg			11/07/22 11:19	1

Client Sample ID: SW-10-0-4-110322

Lab Sample ID: 890-3387-3
Matrix: Solid
Date Collected: 11/03/22 14:30
Date Received: 11/04/22 12:28
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/12/22 23:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/12/22 23:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/12/22 23:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:06	11/12/22 23:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/12/22 23:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:06	11/12/22 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:06*	*11/12/22 23:21*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/09/22 15:06*	*11/12/22 23:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-10-0-4-110322

Lab Sample ID: 890-3387-3
Matrix: Solid
Date Collected: 11/03/22 14:30
Date Received: 11/04/22 12:28
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/10/22 23:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/10/22 23:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/10/22 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*11/07/22 16:54*	*11/10/22 23:09*	*1*
o-Terphenyl	*104*		*70 - 130*	*11/07/22 16:54*	*11/10/22 23:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**918**		4.99		mg/Kg			11/07/22 11:24	1

Client Sample ID: B-43-4-110322

Lab Sample ID: 890-3387-4
Matrix: Solid
Date Collected: 11/03/22 14:35
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/12/22 23:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/12/22 23:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/12/22 23:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:06	11/12/22 23:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/12/22 23:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:06	11/12/22 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:06*	*11/12/22 23:47*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:06*	*11/12/22 23:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 23:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 23:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/07/22 16:54*	*11/10/22 23:30*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/07/22 16:54*	*11/10/22 23:30*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-43-4-110322
Lab Sample ID: 890-3387-4
Matrix: Solid
Date Collected: 11/03/22 14:35
Date Received: 11/04/22 12:28
Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3590		25.2		mg/Kg			11/07/22 11:29	5

Client Sample ID: B-44-4-110322
Lab Sample ID: 890-3387-5
Matrix: Solid
Date Collected: 11/03/22 14:40
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 00:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 00:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 00:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:06	11/13/22 00:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 00:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:06	11/13/22 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*11/09/22 15:06*	*11/13/22 00:14*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/09/22 15:06*	*11/13/22 00:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 23:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 23:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*11/07/22 16:54*	*11/10/22 23:51*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/07/22 16:54*	*11/10/22 23:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2810		99.6		mg/Kg			11/07/22 11:34	20

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-45-4-110322
Date Collected: 11/03/22 14:45
Date Received: 11/04/22 12:28
Sample Depth: 4'

Lab Sample ID: 890-3387-6
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		mg/Kg		11/09/22 15:06	11/13/22 00:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 00:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 00:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:06	11/13/22 00:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 00:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:06	11/13/22 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:06*	*11/13/22 00:40*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/09/22 15:06*	*11/13/22 00:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	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	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 00:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 00:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*11/07/22 16:54*	*11/11/22 00:12*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/07/22 16:54*	*11/11/22 00:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**951**		24.9		mg/Kg			11/07/22 11:49	5

Client Sample ID: B-46-4-110322
Date Collected: 11/03/22 14:50
Date Received: 11/04/22 12:28
Sample Depth: 4'

Lab Sample ID: 890-3387-7
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		mg/Kg		11/09/22 15:06	11/13/22 01:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 01:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 01:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:06	11/13/22 01:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 01:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:06	11/13/22 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/09/22 15:06*	*11/13/22 01:06*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-46-4-110322
Date Collected: 11/03/22 14:50
Date Received: 11/04/22 12:28
Sample Depth: 4'

Lab Sample ID: 890-3387-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/09/22 15:06*	*11/13/22 01:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	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	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 00:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 00:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*11/07/22 16:54*	*11/11/22 00:32*	*1*
o-Terphenyl	*97*		*70 - 130*	*11/07/22 16:54*	*11/11/22 00:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2600**		49.9		mg/Kg			11/07/22 11:54	10

Client Sample ID: B-47-4-110322
Date Collected: 11/03/22 14:55
Date Received: 11/04/22 12:28
Sample Depth: 4'

Lab Sample ID: 890-3387-8
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		11/09/22 15:06	11/13/22 01:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 01:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 01:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:06	11/13/22 01:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 01:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:06	11/13/22 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:06*	*11/13/22 01:32*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/09/22 15:06*	*11/13/22 01:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-47-4-110322

Lab Sample ID: 890-3387-8
Matrix: Solid
Date Collected: 11/03/22 14:55
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 00:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 00:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/07/22 16:54*	*11/11/22 00:53*	*1*
o-Terphenyl	*88*		*70 - 130*	*11/07/22 16:54*	*11/11/22 00:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3280**		49.5		mg/Kg			11/07/22 11:59	10

Client Sample ID: B-48-4-110322

Lab Sample ID: 890-3387-9
Matrix: Solid
Date Collected: 11/03/22 15:00
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:06	11/13/22 01:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:06	11/13/22 01:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:06	11/13/22 01:58	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/09/22 15:06	11/13/22 01:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:06	11/13/22 01:58	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/09/22 15:06	11/13/22 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/09/22 15:06*	*11/13/22 01:58*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/09/22 15:06*	*11/13/22 01:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 01:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 01:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/07/22 16:54*	*11/11/22 01:14*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/07/22 16:54*	*11/11/22 01:14*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-48-4-110322

Lab Sample ID: 890-3387-9
Matrix: Solid
Date Collected: 11/03/22 15:00
Date Received: 11/04/22 12:28
Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7120		49.6		mg/Kg			11/07/22 12:03	10

Client Sample ID: B-49-4-110322

Lab Sample ID: 890-3387-10
Matrix: Solid
Date Collected: 11/03/22 15:05
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 02:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 02:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 02:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:06	11/13/22 02:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 02:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:06	11/13/22 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:06*	*11/13/22 02:24*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/09/22 15:06*	*11/13/22 02:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	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	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 01:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 01:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/07/22 16:54*	*11/11/22 01:34*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/07/22 16:54*	*11/11/22 01:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4440		50.5		mg/Kg			11/07/22 12:08	10

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-50-4-110322

Lab Sample ID: 890-3387-11
Matrix: Solid
Date Collected: 11/03/22 15:10
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 04:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 04:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 04:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/09/22 15:06	11/13/22 04:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 04:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/09/22 15:06	11/13/22 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/09/22 15:06*	*11/13/22 04:08*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/09/22 15:06*	*11/13/22 04:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	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	<49.8	U	49.8		mg/Kg		11/07/22 16:54	11/11/22 02:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/07/22 16:54	11/11/22 02:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/07/22 16:54	11/11/22 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/07/22 16:54*	*11/11/22 02:16*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/07/22 16:54*	*11/11/22 02:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2260**	**F1**	24.9		mg/Kg			11/07/22 12:13	5

Client Sample ID: B-51-4-110322

Lab Sample ID: 890-3387-12
Matrix: Solid
Date Collected: 11/03/22 15:15
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 04:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 04:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 04:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/09/22 15:06	11/13/22 04:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 04:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/09/22 15:06	11/13/22 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:06*	*11/13/22 04:35*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-51-4-110322

Lab Sample ID: 890-3387-12
Matrix: Solid
Date Collected: 11/03/22 15:15
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:06*	*11/13/22 04:35*	*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			11/14/22 12:31	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			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 02:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 02:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*11/07/22 16:54*	*11/11/22 02:37*	*1*
o-Terphenyl	*82*		*70 - 130*	*11/07/22 16:54*	*11/11/22 02:37*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.96		mg/Kg			11/07/22 15:32	1

Client Sample ID: B-52-4-110322

Lab Sample ID: 890-3387-13
Matrix: Solid
Date Collected: 11/03/22 15:20
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 05:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 05:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 05:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:06	11/13/22 05:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/13/22 05:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:06	11/13/22 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/09/22 15:06*	*11/13/22 05:01*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/09/22 15:06*	*11/13/22 05:01*	*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			11/14/22 12:31	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			11/11/22 11:26	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-52-4-110322

Lab Sample ID: 890-3387-13
Matrix: Solid
Date Collected: 11/03/22 15:20
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 02:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/07/22 16:54*	*11/11/22 02:58*	*1*
o-Terphenyl	*102*		*70 - 130*	*11/07/22 16:54*	*11/11/22 02:58*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1080**		49.5		mg/Kg			11/07/22 12:33	10

Client Sample ID: B-53-4-110322

Lab Sample ID: 890-3387-14
Matrix: Solid
Date Collected: 11/03/22 15:25
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 05:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 05:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 05:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:06	11/13/22 05:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 05:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:06	11/13/22 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/09/22 15:06*	*11/13/22 05:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/09/22 15:06*	*11/13/22 05:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	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	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 03:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 03:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/07/22 16:54*	*11/11/22 03:19*	*1*
o-Terphenyl	*103*		*70 - 130*	*11/07/22 16:54*	*11/11/22 03:19*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-53-4-110322

Lab Sample ID: 890-3387-14
Matrix: Solid
Date Collected: 11/03/22 15:25
Date Received: 11/04/22 12:28
Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4690		50.0		mg/Kg			11/07/22 12:48	10

Client Sample ID: B-54-4-110322

Lab Sample ID: 890-3387-15
Matrix: Solid
Date Collected: 11/03/22 15:30
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 05:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 05:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 05:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:06	11/13/22 05:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:06	11/13/22 05:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:06	11/13/22 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:06*	*11/13/22 05:54*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/09/22 15:06*	*11/13/22 05:54*	*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		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	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	<49.8	U	49.8		mg/Kg		11/07/22 16:54	11/11/22 03:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/07/22 16:54	11/11/22 03:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/07/22 16:54	11/11/22 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*11/07/22 16:54*	*11/11/22 03:39*	*1*
o-Terphenyl	*103*		*70 - 130*	*11/07/22 16:54*	*11/11/22 03:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.99		mg/Kg			11/07/22 12:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-55-4-110322

Lab Sample ID: 890-3387-16
Matrix: Solid
Date Collected: 11/03/22 15:35
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 06:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 06:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 06:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:06	11/13/22 06:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 06:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:06	11/13/22 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/09/22 15:06*	*11/13/22 06:20*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/09/22 15:06*	*11/13/22 06:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 04:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 04:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/11/22 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/07/22 16:54*	*11/11/22 04:00*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/07/22 16:54*	*11/11/22 04:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2430**		25.1		mg/Kg			11/07/22 12:58	5

Client Sample ID: B-56-4-110322

Lab Sample ID: 890-3387-17
Matrix: Solid
Date Collected: 11/03/22 15:40
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 06:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 06:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 06:47	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/09/22 15:06	11/13/22 06:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:06	11/13/22 06:47	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/09/22 15:06	11/13/22 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/09/22 15:06*	*11/13/22 06:47*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-56-4-110322
Date Collected: 11/03/22 15:40
Date Received: 11/04/22 12:28
Sample Depth: 4'

Lab Sample ID: 890-3387-17
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/09/22 15:06*	*11/13/22 06:47*	*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			11/14/22 12:31	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			11/11/22 11:26	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	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 04:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 04:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/07/22 16:54*	*11/11/22 04:22*	*1*
o-Terphenyl	*91*		*70 - 130*	*11/07/22 16:54*	*11/11/22 04:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2850**		25.3		mg/Kg			11/07/22 13:03	5

Client Sample ID: B-57-4-110322
Date Collected: 11/03/22 15:45
Date Received: 11/04/22 12:28
Sample Depth: 4'

Lab Sample ID: 890-3387-18
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		11/09/22 15:06	11/13/22 07:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 07:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 07:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:06	11/13/22 07:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:06	11/13/22 07:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:06	11/13/22 07:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:06*	*11/13/22 07:14*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/09/22 15:06*	*11/13/22 07:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:31	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			11/11/22 11:26	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-57-4-110322

Lab Sample ID: 890-3387-18
Matrix: Solid
Date Collected: 11/03/22 15:45
Date Received: 11/04/22 12:28
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 04:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 04:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/07/22 16:54	11/11/22 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*11/07/22 16:54*	*11/11/22 04:43*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/07/22 16:54*	*11/11/22 04:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**398**		50.0		mg/Kg			11/07/22 13:08	10

Client Sample ID: SW-8A-0'-4'-110722

Lab Sample ID: 890-3417-1
Matrix: Solid
Date Collected: 11/07/22 16:00
Date Received: 11/08/22 12:10
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:47	11/12/22 22:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:47	11/12/22 22:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:47	11/12/22 22:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:47	11/12/22 22:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:47	11/12/22 22:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:47	11/12/22 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/09/22 15:47*	*11/12/22 22:13*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/09/22 15:47*	*11/12/22 22:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 11:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 11:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/10/22 08:52*	*11/13/22 11:47*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/10/22 08:52*	*11/13/22 11:47*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-8A-0'-4'-110722

Lab Sample ID: 890-3417-1
Matrix: Solid
Date Collected: 11/07/22 16:00
Date Received: 11/08/22 12:10
Sample Depth: 0-4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.1		4.96		mg/Kg			11/09/22 13:45	1

Client Sample ID: B-65-4'-110822

Lab Sample ID: 890-3417-2
Matrix: Solid
Date Collected: 11/08/22 09:35
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 22:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 22:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 22:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/12/22 22:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 22:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/12/22 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*11/09/22 15:47*	*11/12/22 22:34*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/09/22 15:47*	*11/12/22 22:34*	*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			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/10/22 08:52	11/13/22 12:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/10/22 08:52	11/13/22 12:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/10/22 08:52	11/13/22 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*11/10/22 08:52*	*11/13/22 12:53*	*1*
o-Terphenyl	*106*		*70 - 130*	*11/10/22 08:52*	*11/13/22 12:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11000		101		mg/Kg			11/09/22 14:07	20

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-66-4'-110822
Date Collected: 11/08/22 09:40
Date Received: 11/08/22 12:10
Sample Depth: 4'

Lab Sample ID: 890-3417-3
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		11/09/22 15:47	11/12/22 22:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/12/22 22:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/12/22 22:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/12/22 22:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/12/22 22:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/12/22 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/09/22 15:47*	*11/12/22 22:54*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/09/22 15:47*	*11/12/22 22:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 13:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 13:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*11/10/22 08:52*	*11/13/22 13:16*	*1*
o-Terphenyl	*82*		*70 - 130*	*11/10/22 08:52*	*11/13/22 13:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14100**		100		mg/Kg			11/09/22 14:14	20

Client Sample ID: B-67-4'-110822
Date Collected: 11/08/22 09:45
Date Received: 11/08/22 12:10
Sample Depth: 4'

Lab Sample ID: 890-3417-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/12/22 23:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/12/22 23:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/12/22 23:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/12/22 23:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/12/22 23:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/12/22 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/09/22 15:47*	*11/12/22 23:15*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-67-4'-110822
Date Collected: 11/08/22 09:45
Date Received: 11/08/22 12:10
Sample Depth: 4'

Lab Sample ID: 890-3417-4
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/09/22 15:47*	*11/12/22 23:15*	*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			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 13:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 13:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*11/10/22 08:52*	*11/13/22 13:38*	*1*
o-Terphenyl	*84*		*70 - 130*	*11/10/22 08:52*	*11/13/22 13:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11200**		101		mg/Kg			11/09/22 14:22	20

Client Sample ID: B-68-4'-110822
Date Collected: 11/08/22 09:50
Date Received: 11/08/22 12:10
Sample Depth: 4'

Lab Sample ID: 890-3417-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 23:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 23:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 23:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:47	11/12/22 23:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 23:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:47	11/12/22 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/09/22 15:47*	*11/12/22 23:35*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:47*	*11/12/22 23:35*	*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			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-68-4'-110822
Date Collected: 11/08/22 09:50
Date Received: 11/08/22 12:10
Sample Depth: 4'

Lab Sample ID: 890-3417-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 14:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 14:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*11/10/22 08:52*	*11/13/22 14:00*	*1*
o-Terphenyl	*105*		*70 - 130*	*11/10/22 08:52*	*11/13/22 14:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10800**		100		mg/Kg			11/09/22 14:29	20

Client Sample ID: B-69-4'-110822
Date Collected: 11/08/22 09:55
Date Received: 11/08/22 12:10
Sample Depth: 4'

Lab Sample ID: 890-3417-6
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		mg/Kg		11/09/22 15:47	11/12/22 23:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:47	11/12/22 23:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:47	11/12/22 23:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/09/22 15:47	11/12/22 23:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:47	11/12/22 23:56	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/09/22 15:47	11/12/22 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:47*	*11/12/22 23:56*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/09/22 15:47*	*11/12/22 23:56*	*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			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 14:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 14:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*11/10/22 08:52*	*11/13/22 14:22*	*1*
o-Terphenyl	*84*		*70 - 130*	*11/10/22 08:52*	*11/13/22 14:22*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-69-4'-110822
Lab Sample ID: 890-3417-6
Matrix: Solid
Date Collected: 11/08/22 09:55
Date Received: 11/08/22 12:10
Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6280		49.7		mg/Kg			11/09/22 14:50	10

Client Sample ID: B-70-4'-110822
Lab Sample ID: 890-3417-7
Matrix: Solid
Date Collected: 11/08/22 10:00
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:47	11/13/22 00:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:47	11/13/22 00:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:47	11/13/22 00:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:47	11/13/22 00:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:47	11/13/22 00:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:47	11/13/22 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/09/22 15:47*	*11/13/22 00:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/09/22 15:47*	*11/13/22 00:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 14:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 14:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*11/10/22 08:52*	*11/13/22 14:44*	*1*
o-Terphenyl	*78*		*70 - 130*	*11/10/22 08:52*	*11/13/22 14:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5010		49.7		mg/Kg			11/09/22 14:58	10

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-71-4'-110822

Lab Sample ID: 890-3417-8
Matrix: Solid
Date Collected: 11/08/22 10:05
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 00:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 00:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 00:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/13/22 00:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 00:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/13/22 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/09/22 15:47*	*11/13/22 00:37*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:47*	*11/13/22 00:37*	*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		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/10/22 08:52*	*11/13/22 15:06*	*1*
o-Terphenyl	*82*		*70 - 130*	*11/10/22 08:52*	*11/13/22 15:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1150**		25.2		mg/Kg			11/09/22 15:05	5

Client Sample ID: B-72-4'-110822

Lab Sample ID: 890-3417-9
Matrix: Solid
Date Collected: 11/08/22 10:10
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 00:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 00:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 00:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 00:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 00:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:47*	*11/13/22 00:57*	*1*

Eurofins Carlsbad

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-72-4'-110822
Date Collected: 11/08/22 10:10
Date Received: 11/08/22 12:10
Sample Depth: 4'

Lab Sample ID: 890-3417-9
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/09/22 15:47*	*11/13/22 00:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 15:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 15:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*11/10/22 08:52*	*11/13/22 15:28*	*1*
o-Terphenyl	*84*		*70 - 130*	*11/10/22 08:52*	*11/13/22 15:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5690**		50.4		mg/Kg			11/09/22 15:12	10

Client Sample ID: B-73-4'-110822
Date Collected: 11/08/22 10:15
Date Received: 11/08/22 12:10
Sample Depth: 4'

Lab Sample ID: 890-3417-10
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		11/09/22 15:47	11/13/22 01:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 01:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 01:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 01:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 01:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/09/22 15:47*	*11/13/22 01:17*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/09/22 15:47*	*11/13/22 01:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-73-4'-110822

Lab Sample ID: 890-3417-10
Matrix: Solid
Date Collected: 11/08/22 10:15
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 15:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 15:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*11/10/22 08:52*	*11/13/22 15:50*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/10/22 08:52*	*11/13/22 15:50*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**775**		25.2		mg/Kg			11/09/22 15:19	5

Client Sample ID: SW-12-0'-4'-110722

Lab Sample ID: 890-3417-11
Matrix: Solid
Date Collected: 11/07/22 11:50
Date Received: 11/08/22 12:10
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 02:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 02:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 02:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:47	11/13/22 02:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 02:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:47	11/13/22 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/09/22 15:47*	*11/13/22 02:39*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/09/22 15:47*	*11/13/22 02:39*	*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			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 16:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/10/22 08:52*	*11/13/22 16:34*	*1*
o-Terphenyl	*86*		*70 - 130*	*11/10/22 08:52*	*11/13/22 16:34*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-12-0'-4'-110722

Lab Sample ID: 890-3417-11
Matrix: Solid
Date Collected: 11/07/22 11:50
Date Received: 11/08/22 12:10
Sample Depth: 0-4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.99		mg/Kg			11/09/22 15:26	1

Client Sample ID: SW-13-0'-4'-110722

Lab Sample ID: 890-3417-12
Matrix: Solid
Date Collected: 11/07/22 11:55
Date Received: 11/08/22 12:10
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 03:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 03:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 03:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/13/22 03:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 03:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/13/22 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/09/22 15:47*	*11/13/22 03:00*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/09/22 15:47*	*11/13/22 03:00*	*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			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 16:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/10/22 08:52*	*11/13/22 16:56*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/10/22 08:52*	*11/13/22 16:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	374		5.02		mg/Kg			11/09/22 15:48	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: SW-14-0'-4'-110722

Lab Sample ID: 890-3417-13
Matrix: Solid
Date Collected: 11/07/22 12:00
Date Received: 11/08/22 12:10
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 03:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 03:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 03:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 03:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 03:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/09/22 15:47*	*11/13/22 03:21*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/09/22 15:47*	*11/13/22 03:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 17:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 17:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*11/10/22 08:52*	*11/13/22 17:19*	*1*
o-Terphenyl	*93*		*70 - 130*	*11/10/22 08:52*	*11/13/22 17:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.8**		4.97		mg/Kg			11/09/22 15:55	1

Client Sample ID: B-57-4'-110722

Lab Sample ID: 890-3417-14
Matrix: Solid
Date Collected: 11/07/22 12:05
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:47	11/13/22 03:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:47	11/13/22 03:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:47	11/13/22 03:41	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/09/22 15:47	11/13/22 03:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:47	11/13/22 03:41	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/09/22 15:47	11/13/22 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*11/09/22 15:47*	*11/13/22 03:41*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-57-4'-110722

Lab Sample ID: 890-3417-14
Matrix: Solid
Date Collected: 11/07/22 12:05
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:47*	*11/13/22 03:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/10/22 08:52*	*11/13/22 17:41*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/10/22 08:52*	*11/13/22 17:41*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1290**		24.9		mg/Kg			11/09/22 16:17	5

Client Sample ID: B-58-4'-110822

Lab Sample ID: 890-3417-15
Matrix: Solid
Date Collected: 11/07/22 12:10
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:47	11/13/22 04:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:47	11/13/22 04:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:47	11/13/22 04:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/09/22 15:47	11/13/22 04:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:47	11/13/22 04:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/09/22 15:47	11/13/22 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/09/22 15:47*	*11/13/22 04:02*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/09/22 15:47*	*11/13/22 04:02*	*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			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-58-4'-110822
Lab Sample ID: 890-3417-15
Date Collected: 11/07/22 12:10
Matrix: Solid
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/10/22 08:52*	*11/13/22 18:03*	*1*
o-Terphenyl	*88*		*70 - 130*	*11/10/22 08:52*	*11/13/22 18:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**172**		5.03		mg/Kg			11/09/22 16:25	1

Client Sample ID: B-59-4'-110822
Lab Sample ID: 890-3417-16
Date Collected: 11/07/22 12:15
Matrix: Solid
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 04:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 04:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 04:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/13/22 04:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 04:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/13/22 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:47*	*11/13/22 04:22*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/09/22 15:47*	*11/13/22 04:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 18:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 18:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/10/22 08:52*	*11/13/22 18:25*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/10/22 08:52*	*11/13/22 18:25*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-59-4'-110822

Lab Sample ID: 890-3417-16
Matrix: Solid
Date Collected: 11/07/22 12:15
Date Received: 11/08/22 12:10
Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3380		25.2		mg/Kg			11/09/22 16:32	5

Client Sample ID: B-60-4'-110722

Lab Sample ID: 890-3417-17
Matrix: Solid
Date Collected: 11/07/22 12:20
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 04:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 04:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 04:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 04:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 04:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/09/22 15:47*	*11/13/22 04:42*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/09/22 15:47*	*11/13/22 04:42*	*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			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 18:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/10/22 08:52*	*11/13/22 18:47*	*1*
o-Terphenyl	*88*		*70 - 130*	*11/10/22 08:52*	*11/13/22 18:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		25.3		mg/Kg			11/09/22 16:39	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-61-4'-110722

Lab Sample ID: 890-3417-18
Matrix: Solid
Date Collected: 11/07/22 12:25
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:47	11/13/22 05:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:47	11/13/22 05:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:47	11/13/22 05:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/09/22 15:47	11/13/22 05:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:47	11/13/22 05:03	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/09/22 15:47	11/13/22 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/09/22 15:47*	*11/13/22 05:03*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/09/22 15:47*	*11/13/22 05:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 19:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*11/10/22 08:52*	*11/13/22 19:09*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/10/22 08:52*	*11/13/22 19:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		5.00		mg/Kg			11/09/22 16:46	1

Client Sample ID: B-62-4'-110722

Lab Sample ID: 890-3417-19
Matrix: Solid
Date Collected: 11/07/22 12:30
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 05:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 05:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 05:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 05:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:47	11/13/22 05:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:47	11/13/22 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/09/22 15:47*	*11/13/22 05:23*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-62-4'-110722

Lab Sample ID: 890-3417-19
Matrix: Solid
Date Collected: 11/07/22 12:30
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*11/09/22 15:47*	*11/13/22 05:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 19:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 19:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:52	11/13/22 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*11/10/22 08:52*	*11/13/22 19:32*	*1*
o-Terphenyl	*80*		*70 - 130*	*11/10/22 08:52*	*11/13/22 19:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5500**		49.5		mg/Kg			11/09/22 16:54	10

Client Sample ID: B-63-4'-110722

Lab Sample ID: 890-3417-20
Matrix: Solid
Date Collected: 11/07/22 12:35
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 05:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 05:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 05:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/13/22 05:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/13/22 05:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:47	11/13/22 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/09/22 15:47*	*11/13/22 05:44*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/09/22 15:47*	*11/13/22 05:44*	*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			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/14/22 14:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-63-4'-110722

Lab Sample ID: 890-3417-20
Matrix: Solid
Date Collected: 11/07/22 12:35
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/10/22 08:52	11/13/22 19:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/10/22 08:52	11/13/22 19:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/10/22 08:52	11/13/22 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*11/10/22 08:52*	*11/13/22 19:53*	*1*
o-Terphenyl	*81*		*70 - 130*	*11/10/22 08:52*	*11/13/22 19:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**785**		49.6		mg/Kg			11/09/22 17:01	10

Client Sample ID: B-64-4'-110722

Lab Sample ID: 890-3417-21
Matrix: Solid
Date Collected: 11/07/22 12:40
Date Received: 11/08/22 12:10
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:50	11/13/22 16:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:50	11/13/22 16:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:50	11/13/22 16:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:50	11/13/22 16:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:50	11/13/22 16:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:50	11/13/22 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/09/22 15:50*	*11/13/22 16:20*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/09/22 15:50*	*11/13/22 16:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 09:30	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	<49.9	U *1	49.9		mg/Kg		11/10/22 08:48	11/11/22 19:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 19:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/10/22 08:48*	*11/11/22 19:03*	*1*
o-Terphenyl	*88*		*70 - 130*	*11/10/22 08:48*	*11/11/22 19:03*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-64-4'-110722

Lab Sample ID: 890-3417-21
Matrix: Solid
Date Collected: 11/07/22 12:40
Date Received: 11/08/22 12:10
Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		5.05		mg/Kg			11/09/22 13:04	1

Client Sample ID: SW-10A-0-4-111422

Lab Sample ID: 890-3462-1
Matrix: Solid
Date Collected: 11/14/22 09:00
Date Received: 11/15/22 08:07
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 16:37	11/23/22 04:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 16:37	11/23/22 04:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 16:37	11/23/22 04:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/17/22 16:37	11/23/22 04:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 16:37	11/23/22 04:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 16:37	11/23/22 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/17/22 16:37*	*11/23/22 04:26*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 16:37*	*11/23/22 04:26*	*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			11/23/22 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:28	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	50.0		mg/Kg		11/17/22 10:08	11/20/22 01:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 10:08	11/20/22 01:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 10:08	11/20/22 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*11/17/22 10:08*	*11/20/22 01:02*	*1*
o-Terphenyl	*113*		*70 - 130*	*11/17/22 10:08*	*11/20/22 01:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.7		5.05		mg/Kg			11/17/22 03:19	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-65A-5-111422

Lab Sample ID: 890-3462-2
Matrix: Solid
Date Collected: 11/14/22 09:05
Date Received: 11/15/22 08:07
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 16:37	11/23/22 04:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 16:37	11/23/22 04:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 16:37	11/23/22 04:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/17/22 16:37	11/23/22 04:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 16:37	11/23/22 04:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/17/22 16:37	11/23/22 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 16:37*	*11/23/22 04:47*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/17/22 16:37*	*11/23/22 04:47*	*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			11/23/22 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:28	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	50.0		mg/Kg		11/17/22 10:08	11/20/22 01:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 10:08	11/20/22 01:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 10:08	11/20/22 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/17/22 10:08*	*11/20/22 01:23*	*1*
o-Terphenyl	*105*		*70 - 130*	*11/17/22 10:08*	*11/20/22 01:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2830**		24.8		mg/Kg			11/17/22 03:36	5

Client Sample ID: B-66A-5-111422

Lab Sample ID: 890-3462-3
Matrix: Solid
Date Collected: 11/14/22 09:10
Date Received: 11/15/22 08:07
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/17/22 16:37	11/23/22 05:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 16:37	11/23/22 05:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 16:37	11/23/22 05:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/17/22 16:37	11/23/22 05:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 16:37	11/23/22 05:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 16:37	11/23/22 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 16:37*	*11/23/22 05:08*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-66A-5-111422
Date Collected: 11/14/22 09:10
Date Received: 11/15/22 08:07
Sample Depth: 5

Lab Sample ID: 890-3462-3
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/17/22 16:37*	*11/23/22 05:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/23/22 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/17/22 10:08	11/20/22 02:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 10:08	11/20/22 02:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 10:08	11/20/22 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/17/22 10:08*	*11/20/22 02:06*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/17/22 10:08*	*11/20/22 02:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2410**		49.9		mg/Kg			11/17/22 03:41	10

Client Sample ID: B-67A-5-111422
Date Collected: 11/14/22 09:15
Date Received: 11/15/22 08:07
Sample Depth: 5

Lab Sample ID: 890-3462-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/17/22 16:37	11/23/22 05:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 16:37	11/23/22 05:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 16:37	11/23/22 05:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/17/22 16:37	11/23/22 05:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 16:37	11/23/22 05:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 16:37	11/23/22 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/17/22 16:37*	*11/23/22 05:28*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 16:37*	*11/23/22 05:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/23/22 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-67A-5-111422

Lab Sample ID: 890-3462-4
Matrix: Solid
Date Collected: 11/14/22 09:15
Date Received: 11/15/22 08:07
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/17/22 10:08	11/20/22 02:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 10:08	11/20/22 02:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 10:08	11/20/22 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/17/22 10:08*	*11/20/22 02:28*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/17/22 10:08*	*11/20/22 02:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**335**		5.01		mg/Kg			11/17/22 03:47	1

Client Sample ID: B-68A-5-111422

Lab Sample ID: 890-3462-5
Matrix: Solid
Date Collected: 11/14/22 09:20
Date Received: 11/15/22 08:07
Sample Depth: 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 16:37	11/23/22 05:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 16:37	11/23/22 05:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 16:37	11/23/22 05:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/17/22 16:37	11/23/22 05:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 16:37	11/23/22 05:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 16:37	11/23/22 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/17/22 16:37*	*11/23/22 05:49*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/17/22 16:37*	*11/23/22 05:49*	*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			11/23/22 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/17/22 10:08	11/20/22 02:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 10:08	11/20/22 02:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 10:08	11/20/22 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/17/22 10:08*	*11/20/22 02:49*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/17/22 10:08*	*11/20/22 02:49*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-68A-5-111422
Date Collected: 11/14/22 09:20
Date Received: 11/15/22 08:07
Sample Depth: 5

Lab Sample ID: 890-3462-5
Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2840		25.2		mg/Kg			11/17/22 03:52	5

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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)
880-20838-1	B-1-4'-102522	125	92
880-20838-2	B-2-4'-102522	128	89
880-21034-1	SW-4-0'-4'-103122	104	99
880-21034-1 MS	SW-4-0'-4'-103122	125	95
880-21034-1 MSD	SW-4-0'-4'-103122	135 S1+	92
880-21034-2	B-3-4'-103122	112	92
880-21034-3	B-4-4'-103122	115	97
880-21034-4	B-5-4'-103122	119	102
880-21034-5	B-6-4'-103122	120	100
880-21034-6	B-7-4'-103122	115	106
880-21034-7	B-8-4'-103122	122	100
880-21034-8	B-9-4'-103122	122	102
880-21034-9	B-10-4'-103122	139 S1+	96
880-21034-10	B-11-4'-103122	115	99
880-21034-11	B-12-4'-103122	110	92
880-21034-12	B-13-4'-103122	120	99
880-21034-13	B-14-4'-103122	112	106
880-21034-14	B-15-4'-103122	120	101
880-21034-15	B-16-4'-103122	121	105
890-3298-1	SW-3-0'-4'-102522	130	96
890-3298-2	TP-6-0'-4'-102622	137 S1+	88
890-3318-1	SW-5-0'-4-102722	114	108
890-3318-2	SW-6-0'-4'-102722	108	105
890-3362-1	SW-1-0-4-110122	175 S1+	77
890-3362-1 MS	SW-1-0-4-110122	176 S1+	81
890-3362-1 MSD	SW-1-0-4-110122	182 S1+	80
890-3362-2	SW-2-0-4-110122	193 S1+	85
890-3362-3	SW-9-0-4-110122	180 S1+	88
890-3362-4	B-29-4-110122	181 S1+	76
890-3362-5	B-30-4-110122	180 S1+	80
890-3362-6	B-31-4-110122	186 S1+	86
890-3362-7	B-32-4-11012	198 S1+	86
890-3362-8	B-33-4-110122	197 S1+	80
890-3362-9	B-34-4-110122	190 S1+	79
890-3362-10	SW-7-0-4-110122	184 S1+	76
890-3362-11	SW-8-0-4-110122	177 S1+	84
890-3362-12	B-17-4-110122	199 S1+	81
890-3362-13	B-18-4-110122	177 S1+	82
890-3362-14	B-19-4-110122	193 S1+	86
890-3362-15	B-20-4-110122	195 S1+	87
890-3362-16	B-21-4-110122	198 S1+	75
890-3362-17	B-22-4-110122	201 S1+	86
890-3362-18	B-23-4-110211	202 S1+	83
890-3362-19	B-24-4-110122	201 S1+	84
890-3362-20	B-25-4-110122	192 S1+	88
890-3362-21	B-26-4-110222	109	103
890-3362-22	b-27-4-110222	120	100
890-3367-1	B-28-4-110222	113	113
890-3367-2	B-35-4-110222	111	107

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

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)
890-3367-3	B-36-4-110222	113	112
890-3367-4	B-37-4-110222	107	118
890-3367-5	B-38-4-110222	108	112
890-3367-6	B-39-4-110222	116	113
890-3367-7	B-40-4-110222	116	116
890-3367-8	B-41-4-110222	110	118
890-3367-9	B-42-4-110222	124	116
890-3387-1	SW-6A-0-4-110322	89	106
890-3387-1 MS	SW-6A-0-4-110322	97	106
890-3387-1 MSD	SW-6A-0-4-110322	94	106
890-3387-2	SW-11-0-4-110322	101	106
890-3387-3	SW-10-0-4-110322	101	106
890-3387-4	B-43-4-110322	101	102
890-3387-5	B-44-4-110322	103	103
890-3387-6	B-45-4-110322	102	105
890-3387-7	B-46-4-110322	97	105
890-3387-8	B-47-4-110322	102	103
890-3387-9	B-48-4-110322	96	94
890-3387-10	B-49-4-110322	102	96
890-3387-11	B-50-4-110322	92	103
890-3387-12	B-51-4-110322	102	102
890-3387-13	B-52-4-110322	98	105
890-3387-14	B-53-4-110322	108	105
890-3387-15	B-54-4-110322	101	93
890-3387-16	B-55-4-110322	107	106
890-3387-17	B-56-4-110322	95	108
890-3387-18	B-57-4-110322	102	104
890-3417-1	SW-8A-0'-4'-110722	94	105
890-3417-1 MS	SW-8A-0'-4'-110722	92	112
890-3417-1 MSD	SW-8A-0'-4'-110722	94	116
890-3417-2	B-65-4'-110822	99	107
890-3417-3	B-66-4'-110822	96	105
890-3417-4	B-67-4'-110822	106	100
890-3417-5	B-68-4'-110822	94	101
890-3417-6	B-69-4'-110822	101	93
890-3417-7	B-70-4'-110822	97	106
890-3417-8	B-71-4'-110822	100	101
890-3417-9	B-72-4'-110822	101	93
890-3417-10	B-73-4'-110822	97	96
890-3417-11	SW-12-0'-4'-110722	81	98
890-3417-12	SW-13-0'-4'-110722	94	107
890-3417-13	SW-14-0'-4'-110722	100	96
890-3417-14	B-57-4'-110722	99	101
890-3417-15	B-58-4'-110822	108	95
890-3417-16	B-59-4'-110822	102	100
890-3417-17	B-60-4'-110722	96	99
890-3417-18	B-61-4'-110722	96	95
890-3417-19	B-62-4'-110722	96	90
890-3417-20	B-63-4'-110722	104	100
890-3417-21	B-64-4'-110722	95	98

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 890-3462-2
Project/Site: Copperhead 30153056

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3462-1	SW-10A-0-4-111422	102	104
890-3462-2	B-65A-5-111422	104	108
890-3462-3	B-66A-5-111422	104	106
890-3462-4	B-67A-5-111422	112	97
890-3462-5	B-68A-5-111422	98	102
LCS 880-38264/1-A	Lab Control Sample	110	92
LCS 880-38292/1-A	Lab Control Sample	86	90
LCS 880-38531/1-A	Lab Control Sample	99	86
LCS 880-38630/1-A	Lab Control Sample	183 S1+	87
LCS 880-38647/1-A	Lab Control Sample	108	99
LCS 880-38880/1-A	Lab Control Sample	81	109
LCS 880-39127/1-A	Lab Control Sample	91	96
LCS 880-39144/1-A	Lab Control Sample	98	119
LCS 880-39145/1-A	Lab Control Sample	99	117
LCS 880-39859/1-A	Lab Control Sample	96	113
LCSD 880-38264/2-A	Lab Control Sample Dup	103	90
LCSD 880-38292/2-A	Lab Control Sample Dup	74	92
LCSD 880-38531/2-A	Lab Control Sample Dup	126	97
LCSD 880-38630/2-A	Lab Control Sample Dup	173 S1+	84
LCSD 880-38647/2-A	Lab Control Sample Dup	109	101
LCSD 880-38880/2-A	Lab Control Sample Dup	76	111
LCSD 880-39127/2-A	Lab Control Sample Dup	93	105
LCSD 880-39144/2-A	Lab Control Sample Dup	112	119
LCSD 880-39145/2-A	Lab Control Sample Dup	90	116
LCSD 880-39859/2-A	Lab Control Sample Dup	94	115
MB 880-38099/5-A	Method Blank	79	90
MB 880-38264/5-A	Method Blank	81	85
MB 880-38292/5-A	Method Blank	96	101
MB 880-38531/5-A	Method Blank	88	98
MB 880-38630/5-A	Method Blank	120	81
MB 880-38647/5-A	Method Blank	89	101
MB 880-38855/5-A	Method Blank	84	101
MB 880-38880/5-A	Method Blank	94	100
MB 880-39127/5-A	Method Blank	59 S1-	98
MB 880-39138/5-A	Method Blank	59 S1-	99
MB 880-39144/5-A	Method Blank	78	101
MB 880-39145/5-A	Method Blank	80	104
MB 880-39859/5-A	Method Blank	80	99
MB 880-40183/5-A	Method Blank	83	101

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-21034-1	SW-4-0'-4'-103122	99	111

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-21034-1 MS	SW-4-0'-4'-103122	103	104								
880-21034-1 MSD	SW-4-0'-4'-103122	104	103								
880-21034-2	B-3-4'-103122	103	115								
880-21034-3	B-4-4'-103122	89	98								
880-21034-4	B-5-4'-103122	105	114								
880-21034-5	B-6-4'-103122	95	104								
880-21034-6	B-7-4'-103122	110	121								
880-21034-7	B-8-4'-103122	107	119								
880-21034-8	B-9-4'-103122	111	125								
880-21034-9	B-10-4'-103122	134 S1+	143 S1+								
880-21034-10	B-11-4'-103122	117	127								
880-21034-11	B-12-4'-103122	114	125								
880-21034-12	B-13-4'-103122	130	143 S1+								
880-21034-13	B-14-4'-103122	123	134 S1+								
880-21034-14	B-15-4'-103122	117	128								
880-21034-15	B-16-4'-103122	143 S1+	155 S1+								
890-3318-1	SW-5-0'-4-102722	82	95								
890-3318-2	SW-6-0'-4'-102722	86	96								
890-3362-1	SW-1-0-4-110122	83	93								
890-3362-1 MS	SW-1-0-4-110122	73	73								
890-3362-1 MSD	SW-1-0-4-110122	74	73								
890-3362-2	SW-2-0-4-110122	82	91								
890-3362-3	SW-9-0-4-110122	87	96								
890-3362-4	B-29-4-110122	109	117								
890-3362-5	B-30-4-110122	99	109								
890-3362-6	B-31-4-110122	87	95								
890-3362-7	B-32-4-11012	104	113								
890-3362-8	B-33-4-110122	93	102								
890-3362-9	B-34-4-110122	91	102								
890-3362-10	SW-7-0-4-110122	90	99								
890-3362-11	SW-8-0-4-110122	98	104								
890-3362-12	B-17-4-110122	90	101								
890-3362-13	B-18-4-110122	86	98								
890-3362-14	B-19-4-110122	100	107								
890-3362-15	B-20-4-110122	94	108								
890-3362-16	B-21-4-110122	99	114								
890-3362-17	B-22-4-110122	108	117								
890-3362-18	B-23-4-110211	84	94								
890-3362-19	B-24-4-110122	86	95								
890-3362-20	B-25-4-110122	91	103								
890-3362-21	B-26-4-110222	93	88								
890-3362-22	b-27-4-110222	105	98								
890-3367-1	B-28-4-110222	99	100								
890-3367-2	B-35-4-110222	87	91								
890-3367-3	B-36-4-110222	93	95								
890-3367-4	B-37-4-110222	91	95								
890-3367-5	B-38-4-110222	85	91								
890-3367-6	B-39-4-110222	91	95								
890-3367-7	B-40-4-110222	107	110								
890-3367-8	B-41-4-110222	103	109								

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

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)								
890-3367-9	B-42-4-110222	89	95								
890-3387-1	SW-6A-0-4-110322	90	92								
890-3387-1 MS	SW-6A-0-4-110322	93	83								
890-3387-1 MSD	SW-6A-0-4-110322	92	81								
890-3387-2	SW-11-0-4-110322	85	86								
890-3387-3	SW-10-0-4-110322	103	104								
890-3387-4	B-43-4-110322	95	96								
890-3387-5	B-44-4-110322	94	96								
890-3387-6	B-45-4-110322	94	95								
890-3387-7	B-46-4-110322	94	97								
890-3387-8	B-47-4-110322	87	88								
890-3387-9	B-48-4-110322	93	96								
890-3387-10	B-49-4-110322	89	89								
890-3387-11	B-50-4-110322	95	99								
890-3387-12	B-51-4-110322	82	82								
890-3387-13	B-52-4-110322	101	102								
890-3387-14	B-53-4-110322	101	103								
890-3387-15	B-54-4-110322	102	103								
890-3387-16	B-55-4-110322	92	96								
890-3387-17	B-56-4-110322	89	91								
890-3387-18	B-57-4-110322	98	101								
890-3417-1	SW-8A-0'-4'-110722	95	94								
890-3417-1 MS	SW-8A-0'-4'-110722	93	87								
890-3417-1 MSD	SW-8A-0'-4'-110722	77	73								
890-3417-2	B-65-4'-110822	109	106								
890-3417-3	B-66-4'-110822	78	82								
890-3417-4	B-67-4'-110822	82	84								
890-3417-5	B-68-4'-110822	102	105								
890-3417-6	B-69-4'-110822	83	84								
890-3417-7	B-70-4'-110822	82	78								
890-3417-8	B-71-4'-110822	85	82								
890-3417-9	B-72-4'-110822	86	84								
890-3417-10	B-73-4'-110822	110	101								
890-3417-11	SW-12-0'-4'-110722	87	86								
890-3417-12	SW-13-0'-4'-110722	85	83								
890-3417-13	SW-14-0'-4'-110722	98	93								
890-3417-14	B-57-4'-110722	95	92								
890-3417-15	B-58-4'-110822	87	88								
890-3417-16	B-59-4'-110822	97	94								
890-3417-17	B-60-4'-110722	89	88								
890-3417-18	B-61-4'-110722	81	83								
890-3417-19	B-62-4'-110722	80	80								
890-3417-20	B-63-4'-110722	77	81								
890-3417-21	B-64-4'-110722	91	88								
890-3462-1	SW-10A-0-4-111422	109	113								
890-3462-2	B-65A-5-111422	101	105								
890-3462-3	B-66A-5-111422	97	101								
890-3462-4	B-67A-5-111422	89	94								
890-3462-5	B-68A-5-111422	91	95								
LCS 880-38261/2-A	Lab Control Sample	131 S1+	146 S1+								

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
LCS 880-38644/2-A	Lab Control Sample	93	89
LCS 880-38652/2-A	Lab Control Sample	88	102
LCS 880-38740/2-A	Lab Control Sample	107	94
LCS 880-38742/2-A	Lab Control Sample	93	105
LCS 880-38923/2-A	Lab Control Sample	111	110
LCS 880-39172/2-A	Lab Control Sample	94	97
LCS 880-39174/2-A	Lab Control Sample	101	102
LCS 880-39787/2-A	Lab Control Sample	95	99
LCSD 880-38261/3-A	Lab Control Sample Dup	133 S1+	148 S1+
LCSD 880-38644/3-A	Lab Control Sample Dup	92	89
LCSD 880-38652/3-A	Lab Control Sample Dup	89	101
LCSD 880-38740/3-A	Lab Control Sample Dup	97	93
LCSD 880-38742/3-A	Lab Control Sample Dup	109	123
LCSD 880-38923/3-A	Lab Control Sample Dup	118	119
LCSD 880-39172/3-A	Lab Control Sample Dup	107	109
LCSD 880-39174/3-A	Lab Control Sample Dup	85	91
LCSD 880-39787/3-A	Lab Control Sample Dup	87	94
MB 880-38261/1-A	Method Blank	87	99
MB 880-38644/1-A	Method Blank	93	91
MB 880-38652/1-A	Method Blank	102	115
MB 880-38740/1-A	Method Blank	113	110
MB 880-38742/1-A	Method Blank	89	101
MB 880-38923/1-A	Method Blank	119	123
MB 880-39172/1-A	Method Blank	119	134 S1+
MB 880-39174/1-A	Method Blank	123	123
MB 880-39787/1-A	Method Blank	96	92

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID		
890-3298-1	SW-3-0'-4'-102522		
890-3298-2	TP-6-0'-4'-102622		
MB 880-38114/1-A	Method Blank		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO	OTPH
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-20838-1	B-1-4'-102522	91	98

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO (70-130)	OTPH (70-130)
880-20838-2	B-2-4'-102522	83	92
LCS 880-38083/2-A	Lab Control Sample	87	94
LCSD 880-38083/3-A	Lab Control Sample Dup	87	95
MB 880-38083/1-A	Method Blank	73	81

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38099/5-A
Matrix: Solid
Analysis Batch: 38214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		10/28/22 12:40	10/31/22 11:40	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		10/28/22 12:40	10/31/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		10/28/22 12:40	10/31/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		10/28/22 12:40	10/31/22 11:40	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		10/28/22 12:40	10/31/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		10/28/22 12:40	10/31/22 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*10/28/22 12:40*	*10/31/22 11:40*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*10/28/22 12:40*	*10/31/22 11:40*	*1*

Lab Sample ID: MB 880-38264/5-A
Matrix: Solid
Analysis Batch: 38214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		10/31/22 11:51	11/01/22 01:05	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		10/31/22 11:51	11/01/22 01:05	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		10/31/22 11:51	11/01/22 01:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		10/31/22 11:51	11/01/22 01:05	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		10/31/22 11:51	11/01/22 01:05	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		10/31/22 11:51	11/01/22 01:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*10/31/22 11:51*	*11/01/22 01:05*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/31/22 11:51*	*11/01/22 01:05*	*1*

Lab Sample ID: LCS 880-38264/1-A
Matrix: Solid
Analysis Batch: 38214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07847		mg/Kg		78	70 - 130
Toluene	0.100	0.07661		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.07924		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1551		mg/Kg		78	70 - 130
o-Xylene	0.100	0.1171		mg/Kg		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-38264/2-A
Matrix: Solid
Analysis Batch: 38214

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38264

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07096		mg/Kg		71	70 - 130	10	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCSD 880-38264/2-A
Matrix: Solid
Analysis Batch: 38214

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38264

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07087		mg/Kg		71	70 - 130	8	35
Ethylbenzene			0.100	0.07485		mg/Kg		75	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1355	*-	mg/Kg		68	70 - 130	13	35
o-Xylene			0.100	0.07486	*1	mg/Kg		75	70 - 130	44	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 880-38292/5-A
Matrix: Solid
Analysis Batch: 38317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/31/22 13:44	11/01/22 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/31/22 13:44	11/01/22 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*10/31/22 13:44*	*11/01/22 11:42*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/31/22 13:44*	*11/01/22 11:42*	*1*

Lab Sample ID: LCS 880-38292/1-A
Matrix: Solid
Analysis Batch: 38317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38292

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08466		mg/Kg		85	70 - 130
Toluene			0.100	0.09195		mg/Kg		92	70 - 130
Ethylbenzene			0.100	0.08924		mg/Kg		89	70 - 130
m-Xylene & p-Xylene			0.200	0.1621		mg/Kg		81	70 - 130
o-Xylene			0.100	0.09116		mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-38292/2-A
Matrix: Solid
Analysis Batch: 38317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38292

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08006		mg/Kg		80	70 - 130	6	35
Toluene			0.100	0.08417		mg/Kg		84	70 - 130	9	35
Ethylbenzene			0.100	0.08077		mg/Kg		81	70 - 130	10	35

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCSD 880-38292/2-A
Matrix: Solid
Analysis Batch: 38317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38292

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1473		mg/Kg		74	70 - 130	10	35
o-Xylene			0.100	0.08231		mg/Kg		82	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 880-38531/5-A
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/02/22 15:55	11/08/22 02:13	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/02/22 15:55	11/08/22 02:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/02/22 15:55	11/08/22 02:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/02/22 15:55	11/08/22 02:13	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/02/22 15:55	11/08/22 02:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/02/22 15:55	11/08/22 02:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/02/22 15:55*	*11/08/22 02:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/02/22 15:55*	*11/08/22 02:13*	*1*

Lab Sample ID: LCS 880-38531/1-A
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38531

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.06515	*-	mg/Kg		65	70 - 130
Toluene			0.100	0.08772		mg/Kg		88	70 - 130
Ethylbenzene			0.100	0.09084		mg/Kg		91	70 - 130
m-Xylene & p-Xylene			0.200	0.1595		mg/Kg		80	70 - 130
o-Xylene			0.100	0.07957		mg/Kg		80	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: LCSD 880-38531/2-A
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38531

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08307		mg/Kg		83	70 - 130	24	35
Toluene			0.100	0.1069		mg/Kg		107	70 - 130	20	35
Ethylbenzene			0.100	0.1095		mg/Kg		109	70 - 130	19	35
m-Xylene & p-Xylene			0.200	0.1965		mg/Kg		98	70 - 130	21	35
o-Xylene			0.100	0.09951		mg/Kg		100	70 - 130	22	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-21034-1 MS — **Client Sample ID: SW-4-0'-4'-103122**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38810 — **Prep Batch: 38531**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00218	U *- F1	0.108	0.08758		mg/Kg	☼	81	70 - 130
Toluene	<0.00218	U	0.108	0.1031		mg/Kg	☼	95	70 - 130
Ethylbenzene	<0.00218	U	0.108	0.1029		mg/Kg	☼	95	70 - 130
m-Xylene & p-Xylene	<0.00435	U	0.217	0.1797		mg/Kg	☼	83	70 - 130
o-Xylene	<0.00218	U	0.108	0.09191		mg/Kg	☼	85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-21034-1 MSD — **Client Sample ID: SW-4-0'-4'-103122**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38810 — **Prep Batch: 38531**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00218	U *- F1	0.109	0.07075	F1	mg/Kg	☼	65	70 - 130	21	35
Toluene	<0.00218	U	0.109	0.08687		mg/Kg	☼	79	70 - 130	17	35
Ethylbenzene	<0.00218	U	0.109	0.08871		mg/Kg	☼	81	70 - 130	15	35
m-Xylene & p-Xylene	<0.00435	U	0.219	0.1568		mg/Kg	☼	72	70 - 130	14	35
o-Xylene	<0.00218	U	0.109	0.08328		mg/Kg	☼	76	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-38630/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38697 — **Prep Batch: 38630**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/03/22 12:53	11/04/22 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 12:53	11/04/22 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/03/22 12:53	11/04/22 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/03/22 12:53	11/04/22 11:34	1
1,4-Difluorobenzene (Surr)	81		70 - 130	11/03/22 12:53	11/04/22 11:34	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCS 880-38630/1-A
Matrix: Solid
Analysis Batch: 38697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38630

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1108		mg/Kg		111	70 - 130		
Toluene			0.100	0.1073		mg/Kg		107	70 - 130		
Ethylbenzene			0.100	0.1082		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2251		mg/Kg		113	70 - 130		
o-Xylene			0.100	0.1113		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*183*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: LCSD 880-38630/2-A
Matrix: Solid
Analysis Batch: 38697

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38630

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1145		mg/Kg		114	70 - 130	3	35
Toluene			0.100	0.1063		mg/Kg		106	70 - 130	1	35
Ethylbenzene			0.100	0.1064		mg/Kg		106	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2209		mg/Kg		110	70 - 130	2	35
o-Xylene			0.100	0.1081		mg/Kg		108	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*173*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: 890-3362-1 MS
Matrix: Solid
Analysis Batch: 38697

Client Sample ID: SW-1-0-4-110122
Prep Type: Total/NA
Prep Batch: 38630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.09967		mg/Kg		99	70 - 130		
Toluene	<0.00201	U	0.100	0.09637		mg/Kg		96	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.09555		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1952		mg/Kg		97	70 - 130		
o-Xylene	<0.00201	U	0.100	0.09640		mg/Kg		96	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*176*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*

Lab Sample ID: 890-3362-1 MSD
Matrix: Solid
Analysis Batch: 38697

Client Sample ID: SW-1-0-4-110122
Prep Type: Total/NA
Prep Batch: 38630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.09468		mg/Kg		95	70 - 130	5	35
Toluene	<0.00201	U	0.0996	0.08968		mg/Kg		90	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.0996	0.08987		mg/Kg		90	70 - 130	6	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: 890-3362-1 MSD
Matrix: Solid
Analysis Batch: 38697

Client Sample ID: SW-1-0-4-110122
Prep Type: Total/NA
Prep Batch: 38630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1832		mg/Kg		92	70 - 130	6	35
o-Xylene	<0.00201	U	0.0996	0.09048		mg/Kg		91	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*182*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: MB 880-38647/5-A
Matrix: Solid
Analysis Batch: 38705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/22 14:12	11/04/22 13:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 14:12	11/04/22 13:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 14:12	11/04/22 13:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/03/22 14:12	11/04/22 13:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 14:12	11/04/22 13:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/03/22 14:12	11/04/22 13:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*11/03/22 14:12*	*11/04/22 13:21*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/03/22 14:12*	*11/04/22 13:21*	*1*

Lab Sample ID: LCS 880-38647/1-A
Matrix: Solid
Analysis Batch: 38705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09434		mg/Kg		94	70 - 130
Toluene	0.100	0.1036		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1062		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.1880		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09220		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-38647/2-A
Matrix: Solid
Analysis Batch: 38705

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09800		mg/Kg		98	70 - 130	4	35
Toluene	0.100	0.1092		mg/Kg		109	70 - 130	5	35
Ethylbenzene	0.100	0.1055		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1858		mg/Kg		93	70 - 130	1	35
o-Xylene	0.100	0.09101		mg/Kg		91	70 - 130	1	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-38855/5-A
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		11/07/22 11:02	11/07/22 14:38	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		11/07/22 11:02	11/07/22 14:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		11/07/22 11:02	11/07/22 14:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		11/07/22 11:02	11/07/22 14:38	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		11/07/22 11:02	11/07/22 14:38	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		11/07/22 11:02	11/07/22 14:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	11/07/22 11:02	11/07/22 14:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/07/22 11:02	11/07/22 14:38	1

Lab Sample ID: MB 880-38880/5-A
Matrix: Solid
Analysis Batch: 38952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/07/22 13:38	11/08/22 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/22 13:38	11/08/22 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/07/22 13:38	11/08/22 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	11/07/22 13:38	11/08/22 11:27	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/07/22 13:38	11/08/22 11:27	1

Lab Sample ID: LCS 880-38880/1-A
Matrix: Solid
Analysis Batch: 38952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08714		mg/Kg		87	70 - 130
Toluene	0.100	0.08461		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.07985		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1502		mg/Kg		75	70 - 130
o-Xylene	0.100	0.08524		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCSD 880-38880/2-A
Matrix: Solid
Analysis Batch: 38952

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38880

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08516		mg/Kg		85	70 - 130	2	35
Toluene			0.100	0.08180		mg/Kg		82	70 - 130	3	35
Ethylbenzene			0.100	0.07487		mg/Kg		75	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1363	*-	mg/Kg		68	70 - 130	10	35
o-Xylene			0.100	0.07730		mg/Kg		77	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: MB 880-39127/5-A
Matrix: Solid
Analysis Batch: 39343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/12/22 22:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/12/22 22:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/12/22 22:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:06	11/12/22 22:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:06	11/12/22 22:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 15:06	11/12/22 22:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*11/09/22 15:06*	*11/12/22 22:01*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/09/22 15:06*	*11/12/22 22:01*	*1*

Lab Sample ID: LCS 880-39127/1-A
Matrix: Solid
Analysis Batch: 39343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39127

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.07783		mg/Kg		78	70 - 130
Toluene			0.100	0.08972		mg/Kg		90	70 - 130
Ethylbenzene			0.100	0.08450		mg/Kg		84	70 - 130
m-Xylene & p-Xylene			0.200	0.1866		mg/Kg		93	70 - 130
o-Xylene			0.100	0.09606		mg/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-39127/2-A
Matrix: Solid
Analysis Batch: 39343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39127

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09677		mg/Kg		97	70 - 130	22	35
Toluene			0.100	0.09684		mg/Kg		97	70 - 130	8	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCSD 880-39127/2-A
Matrix: Solid
Analysis Batch: 39343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39127

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.08774		mg/Kg		88	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1937		mg/Kg		97	70 - 130	4	35
o-Xylene			0.100	0.09881		mg/Kg		99	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-3387-1 MS
Matrix: Solid
Analysis Batch: 39343

Client Sample ID: SW-6A-0-4-110322
Prep Type: Total/NA
Prep Batch: 39127

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0998	0.08356		mg/Kg		84	70 - 130
Toluene	<0.00202	U	0.0998	0.08296		mg/Kg		83	70 - 130
Ethylbenzene	<0.00202	U	0.0998	0.07674		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1692		mg/Kg		85	70 - 130
o-Xylene	<0.00202	U	0.0998	0.08755		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-3387-1 MSD
Matrix: Solid
Analysis Batch: 39343

Client Sample ID: SW-6A-0-4-110322
Prep Type: Total/NA
Prep Batch: 39127

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0996	0.08561		mg/Kg		86	70 - 130	2	35
Toluene	<0.00202	U	0.0996	0.08352		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.0996	0.07274		mg/Kg		73	70 - 130	5	35
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1629		mg/Kg		82	70 - 130	4	35
o-Xylene	<0.00202	U	0.0996	0.08126		mg/Kg		82	70 - 130	7	35

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

Lab Sample ID: MB 880-39138/5-A
Matrix: Solid
Analysis Batch: 39343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:29	11/12/22 08:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:29	11/12/22 08:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:29	11/12/22 08:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:29	11/12/22 08:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:29	11/12/22 08:23	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: MB 880-39138/5-A
Matrix: Solid
Analysis Batch: 39343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 15:29	11/12/22 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*11/09/22 15:29*	*11/12/22 08:23*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/09/22 15:29*	*11/12/22 08:23*	*1*

Lab Sample ID: MB 880-39144/5-A
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 21:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 21:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 21:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:47	11/12/22 21:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:47	11/12/22 21:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 15:47	11/12/22 21:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*11/09/22 15:47*	*11/12/22 21:51*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:47*	*11/12/22 21:51*	*1*

Lab Sample ID: LCS 880-39144/1-A
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39144

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1181		mg/Kg		118	70 - 130		
Toluene			0.100	0.09992		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.09840		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.2007		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1004		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Lab Sample ID: LCSD 880-39144/2-A
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39144

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1111		mg/Kg		111	70 - 130	6	35
Toluene			0.100	0.09555		mg/Kg		96	70 - 130	4	35
Ethylbenzene			0.100	0.09804		mg/Kg		98	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2072		mg/Kg		104	70 - 130	3	35
o-Xylene			0.100	0.1032		mg/Kg		103	70 - 130	3	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCSD 880-39144/2-A
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39144

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: 890-3417-1 MS
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: SW-8A-0'-4'-110722
Prep Type: Total/NA
Prep Batch: 39144

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08009		mg/Kg		80	70 - 130
Toluene	<0.00201	U	0.100	0.08381		mg/Kg		83	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09005		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1709		mg/Kg		85	70 - 130
o-Xylene	<0.00201	U	0.100	0.08157		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-3417-1 MSD
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: SW-8A-0'-4'-110722
Prep Type: Total/NA
Prep Batch: 39144

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.101	0.1064		mg/Kg		106	70 - 130	28	35
Toluene	<0.00201	U	0.101	0.09144		mg/Kg		91	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.101	0.08722		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1778		mg/Kg		88	70 - 130	4	35
o-Xylene	<0.00201	U	0.101	0.08637		mg/Kg		86	70 - 130	6	35

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

Lab Sample ID: MB 880-39145/5-A
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:50	11/13/22 08:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:50	11/13/22 08:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:50	11/13/22 08:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:50	11/13/22 08:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:50	11/13/22 08:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 15:50	11/13/22 08:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	11/09/22 15:50	11/13/22 08:26	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: MB 880-39145/5-A
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39145

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	11/09/22 15:50	11/13/22 08:26	1

Lab Sample ID: LCS 880-39145/1-A
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1210		mg/Kg		121	70 - 130		
Toluene			0.100	0.1029		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.09980		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.2041		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.1011		mg/Kg		101	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-39145/2-A
Matrix: Solid
Analysis Batch: 39370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39145

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09518		mg/Kg		95	70 - 130	24	35
Toluene			0.100	0.07988		mg/Kg		80	70 - 130	25	35
Ethylbenzene			0.100	0.07557		mg/Kg		76	70 - 130	28	35
m-Xylene & p-Xylene			0.200	0.1521		mg/Kg		76	70 - 130	29	35
o-Xylene			0.100	0.07628		mg/Kg		76	70 - 130	28	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: MB 880-39859/5-A
Matrix: Solid
Analysis Batch: 40173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 16:37	11/22/22 21:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 16:37	11/22/22 21:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 16:37	11/22/22 21:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/17/22 16:37	11/22/22 21:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 16:37	11/22/22 21:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 16:37	11/22/22 21:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	11/17/22 16:37	11/22/22 21:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/17/22 16:37	11/22/22 21:56	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCS 880-39859/1-A
Matrix: Solid
Analysis Batch: 40173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39859

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08700		mg/Kg		87	70 - 130		
Toluene			0.100	0.08471		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.08561		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1757		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09086		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-39859/2-A
Matrix: Solid
Analysis Batch: 40173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39859

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08782		mg/Kg		88	70 - 130	1	35
Toluene			0.100	0.08233		mg/Kg		82	70 - 130	3	35
Ethylbenzene			0.100	0.08171		mg/Kg		82	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1657		mg/Kg		83	70 - 130	6	35
o-Xylene			0.100	0.08531		mg/Kg		85	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: MB 880-40183/5-A
Matrix: Solid
Analysis Batch: 40173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/22 09:18	11/22/22 10:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/22 09:18	11/22/22 10:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/22 09:18	11/22/22 10:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/22/22 09:18	11/22/22 10:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/22 09:18	11/22/22 10:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/22/22 09:18	11/22/22 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*11/22/22 09:18*	*11/22/22 10:52*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/22/22 09:18*	*11/22/22 10:52*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: MB 880-38114/1-A
Matrix: Solid
Analysis Batch: 38169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38114

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		10/28/22 15:48	10/30/22 21:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/28/22 15:48	10/30/22 21:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/28/22 15:48	10/30/22 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane				*10/28/22 15:48*	*10/30/22 21:02*	*1*
o-Terphenyl				*10/28/22 15:48*	*10/30/22 21:02*	*1*

Lab Sample ID: LCS 880-38114/2-A
Matrix: Solid
Analysis Batch: 38169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	51000	990.8	*-	mg/Kg		2	70 - 130
Diesel Range Organics (Over C10-C28)	51000	966.7	*-	mg/Kg		2	70 - 130

Lab Sample ID: LCSD 880-38114/3-A
Matrix: Solid
Analysis Batch: 38169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	51000	819.4	*-	mg/Kg		2	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	51000	888.9	*-	mg/Kg		2	70 - 130	8	20

Lab Sample ID: 890-3298-1 MS
Matrix: Solid
Analysis Batch: 38169

Client Sample ID: SW-3-0'-4'-102522
Prep Type: Total/NA
Prep Batch: 38114

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	50900	1020	F1	mg/Kg		2	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U *- F1 F2	50900	674.4	F1	mg/Kg		1	70 - 130

Lab Sample ID: 890-3298-1 MSD
Matrix: Solid
Analysis Batch: 38169

Client Sample ID: SW-3-0'-4'-102522
Prep Type: Total/NA
Prep Batch: 38114

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	50900	1028	F1	mg/Kg		2	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U *- F1 F2	50900	841.7	F1 F2	mg/Kg		2	70 - 130	22	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: MB 880-38261/1-A
Matrix: Solid
Analysis Batch: 38217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38261

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		10/31/22 10:25	10/31/22 09:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/31/22 10:25	10/31/22 09:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/31/22 10:25	10/31/22 09:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*10/31/22 10:25*	*10/31/22 09:53*	*1*
o-Terphenyl	*99*		*70 - 130*	*10/31/22 10:25*	*10/31/22 09:53*	*1*

Lab Sample ID: LCS 880-38261/2-A
Matrix: Solid
Analysis Batch: 38217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38261

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	903.3		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1384	*+	mg/Kg		138	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*146*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-38261/3-A
Matrix: Solid
Analysis Batch: 38217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38261

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	944.8		mg/Kg		94	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1439	*+	mg/Kg		144	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*133*	*S1+*	*70 - 130*
o-Terphenyl	*148*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-38644/1-A
Matrix: Solid
Analysis Batch: 38690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38644

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		11/03/22 14:00	11/04/22 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 14:00	11/04/22 21:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 14:00	11/04/22 21:14	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: MB 880-38644/1-A
Matrix: Solid
Analysis Batch: 38690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38644

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/03/22 14:00	11/04/22 21:14	1
o-Terphenyl	91		70 - 130	11/03/22 14:00	11/04/22 21:14	1

Lab Sample ID: LCS 880-38644/2-A
Matrix: Solid
Analysis Batch: 38690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38644

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	828.5		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	996.4		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: LCSD 880-38644/3-A
Matrix: Solid
Analysis Batch: 38690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38644

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	836.1		mg/Kg		84	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	984.0		mg/Kg		98	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: MB 880-38652/1-A
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38652

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		11/03/22 15:32	11/04/22 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 09:44	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 15:32	11/04/22 09:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	11/03/22 15:32	11/04/22 09:44	1
o-Terphenyl	115		70 - 130	11/03/22 15:32	11/04/22 09:44	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCS 880-38652/2-A
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38652

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	987.3		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1020		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: LCSD 880-38652/3-A
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38652

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	846.9		mg/Kg		85	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	1031		mg/Kg		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 890-3362-1 MS
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: SW-1-0-4-110122
Prep Type: Total/NA
Prep Batch: 38652

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	993.8		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	829.1		mg/Kg		81	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: 890-3362-1 MSD
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: SW-1-0-4-110122
Prep Type: Total/NA
Prep Batch: 38652

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	993.9		mg/Kg		98	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	838.1		mg/Kg		82	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*74*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: 890-3362-1 MSD
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: SW-1-0-4-110122
Prep Type: Total/NA
Prep Batch: 38652

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: MB 880-38740/1-A
Matrix: Solid
Analysis Batch: 38768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38740

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		11/04/22 13:31	11/05/22 09:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 09:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/04/22 13:31	11/05/22 09:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*11/04/22 13:31*	*11/05/22 09:47*	*1*
o-Terphenyl	*110*		*70 - 130*	*11/04/22 13:31*	*11/05/22 09:47*	*1*

Lab Sample ID: LCS 880-38740/2-A
Matrix: Solid
Analysis Batch: 38768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38740

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1186		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1062		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-38740/3-A
Matrix: Solid
Analysis Batch: 38768

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38740

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1179		mg/Kg		118	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: MB 880-38742/1-A
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.09	J	50.0	15.0	mg/Kg		11/04/22 14:07	11/04/22 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		11/04/22 14:07	11/04/22 21:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		11/04/22 14:07	11/04/22 21:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/04/22 14:07*	*11/04/22 21:14*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/04/22 14:07*	*11/04/22 21:14*	*1*

Lab Sample ID: LCS 880-38742/2-A
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	989.3		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	985.8		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-38742/3-A
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38742

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1156		mg/Kg		116	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1181		mg/Kg		118	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*123*		*70 - 130*

Lab Sample ID: 880-21034-1 MS
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: SW-4-0'-4'-103122
Prep Type: Total/NA
Prep Batch: 38742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.6	J B	1080	999.9		mg/Kg	☼	90	70 - 130
Diesel Range Organics (Over C10-C28)	<54.2	U	1080	1196		mg/Kg	☼	110	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: 880-21034-1 MS
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: SW-4-0'-4'-103122
Prep Type: Total/NA
Prep Batch: 38742

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-21034-1 MSD
Matrix: Solid
Analysis Batch: 38692

Client Sample ID: SW-4-0'-4'-103122
Prep Type: Total/NA
Prep Batch: 38742

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	25.6	J B	1080	1080		mg/Kg	☼	97	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<54.2	U	1080	1209		mg/Kg	☼	112	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: MB 880-38923/1-A
Matrix: Solid
Analysis Batch: 39159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38923

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		11/07/22 16:54	11/10/22 20:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 20:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 16:54	11/10/22 20:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	11/07/22 16:54	11/10/22 20:43	1
o-Terphenyl	123		70 - 130	11/07/22 16:54	11/10/22 20:43	1

Lab Sample ID: LCS 880-38923/2-A
Matrix: Solid
Analysis Batch: 39159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	957.4		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	951.4		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	110		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCSD 880-38923/3-A
Matrix: Solid
Analysis Batch: 39159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38923

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1013		mg/Kg		101	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1024		mg/Kg		102	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 890-3387-1 MS
Matrix: Solid
Analysis Batch: 39159

Client Sample ID: SW-6A-0-4-110322
Prep Type: Total/NA
Prep Batch: 38923

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1088		mg/Kg		105	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	834.1		mg/Kg		84	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 890-3387-1 MSD
Matrix: Solid
Analysis Batch: 39159

Client Sample ID: SW-6A-0-4-110322
Prep Type: Total/NA
Prep Batch: 38923

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1067		mg/Kg		102	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	825.0		mg/Kg		83	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: MB 880-39172/1-A
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39172

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		11/10/22 08:48	11/11/22 09:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: MB 880-39172/1-A
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39172

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	11/10/22 08:48	11/11/22 09:30	1
o-Terphenyl	134	S1+	70 - 130	11/10/22 08:48	11/11/22 09:30	1

Lab Sample ID: LCS 880-39172/2-A
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	815.5		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	846.7		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-39172/3-A
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39172

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1003	*1	mg/Kg		100	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	950.2		mg/Kg		95	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: MB 880-39174/1-A
Matrix: Solid
Analysis Batch: 39375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39174

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		11/10/22 08:52	11/13/22 09:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 09:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:52	11/13/22 09:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	11/10/22 08:52	11/13/22 09:13	1
o-Terphenyl	123		70 - 130	11/10/22 08:52	11/13/22 09:13	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: LCS 880-39174/2-A
Matrix: Solid
Analysis Batch: 39375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39174

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	830.9		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	955.2		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: LCSD 880-39174/3-A
Matrix: Solid
Analysis Batch: 39375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39174

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	837.3		mg/Kg		84	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	859.1		mg/Kg		86	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 890-3417-1 MS
Matrix: Solid
Analysis Batch: 39375

Client Sample ID: SW-8A-0'-4'-110722
Prep Type: Total/NA
Prep Batch: 39174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	930.7		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	991.5		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: 890-3417-1 MSD
Matrix: Solid
Analysis Batch: 39375

Client Sample ID: SW-8A-0'-4'-110722
Prep Type: Total/NA
Prep Batch: 39174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	823.8		mg/Kg		82	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	848.2		mg/Kg		85	70 - 130	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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

Lab Sample ID: 890-3417-1 MSD
Matrix: Solid
Analysis Batch: 39375

Client Sample ID: SW-8A-0'-4'-110722
Prep Type: Total/NA
Prep Batch: 39174

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	73		70 - 130

Lab Sample ID: MB 880-39787/1-A
Matrix: Solid
Analysis Batch: 39956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39787

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		11/17/22 10:08	11/19/22 20:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 10:08	11/19/22 20:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 10:08	11/19/22 20:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	11/17/22 10:08	11/19/22 20:22	1
o-Terphenyl	92		70 - 130	11/17/22 10:08	11/19/22 20:22	1

Lab Sample ID: LCS 880-39787/2-A
Matrix: Solid
Analysis Batch: 39956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39787

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	988.3		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	999.1		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-39787/3-A
Matrix: Solid
Analysis Batch: 39956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39787

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1002		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	947.6		mg/Kg		95	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	94		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 880-38083/1-A
Matrix: Solid
Analysis Batch: 38141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	21.92	J	50.0	15.0	mg/Kg		10/28/22 10:20	10/29/22 09:32	1
>C12-C28 Range Hydrocarbons	<50.0	U	50.0	15.0	mg/Kg		10/28/22 10:20	10/29/22 09:32	1
>C28-C35 Range Hydrocarbons	<50.0	U	50.0	15.0	mg/Kg		10/28/22 10:20	10/29/22 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*73*		*70 - 130*	*10/28/22 10:20*	*10/29/22 09:32*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*10/28/22 10:20*	*10/29/22 09:32*	*1*

Lab Sample ID: LCS 880-38083/2-A
Matrix: Solid
Analysis Batch: 38141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C12 Range Hydrocarbons	1000	969.8		mg/Kg		97	75 - 125
>C12-C28 Range Hydrocarbons	1000	805.1		mg/Kg		81	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*87*		*70 - 130*
o-Terphenyl (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-38083/3-A
Matrix: Solid
Analysis Batch: 38141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38083

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C12 Range Hydrocarbons	1000	931.7		mg/Kg		93	75 - 125	4	25
>C12-C28 Range Hydrocarbons	1000	856.1		mg/Kg		86	75 - 125	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*87*		*70 - 130*
o-Terphenyl (Surr)	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38009/1-A
Matrix: Solid
Analysis Batch: 38046

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			10/27/22 23:22	1

Lab Sample ID: LCS 880-38009/2-A
Matrix: Solid
Analysis Batch: 38046

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.2		mg/Kg		106	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-38009/3-A
Matrix: Solid
Analysis Batch: 38046

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	266.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-38086/1-A
Matrix: Solid
Analysis Batch: 38100

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			10/28/22 13:27	1

Lab Sample ID: LCS 880-38086/2-A
Matrix: Solid
Analysis Batch: 38100

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.4		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-38086/3-A
Matrix: Solid
Analysis Batch: 38100

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	258.0		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-3298-1 MS
Matrix: Solid
Analysis Batch: 38100

Client Sample ID: SW-3-0'-4'-102522
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	220		249	458.4		mg/Kg		96	90 - 110		

Lab Sample ID: 890-3298-1 MSD
Matrix: Solid
Analysis Batch: 38100

Client Sample ID: SW-3-0'-4'-102522
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	220		249	459.9		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-38248/1-A
Matrix: Solid
Analysis Batch: 38295

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			10/31/22 12:54	1

Lab Sample ID: LCS 880-38248/2-A
Matrix: Solid
Analysis Batch: 38295

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.6		mg/Kg		103	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-38248/3-A
Matrix: Solid
Analysis Batch: 38295

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	252.1		mg/Kg		101	90 - 110	2	20

Lab Sample ID: MB 880-38512/1-A
Matrix: Solid
Analysis Batch: 38582

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			11/03/22 08:50	1

Lab Sample ID: LCS 880-38512/2-A
Matrix: Solid
Analysis Batch: 38582

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.1		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-38512/3-A
Matrix: Solid
Analysis Batch: 38582

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	249.9		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 880-21034-1 MS
Matrix: Solid
Analysis Batch: 38582

Client Sample ID: SW-4-0'-4'-103122
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	173		274	454.4		mg/Kg	☼	103	90 - 110		

Lab Sample ID: 880-21034-1 MSD
Matrix: Solid
Analysis Batch: 38582

Client Sample ID: SW-4-0'-4'-103122
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	173		274	445.3		mg/Kg	☼	100	90 - 110	2	20

Lab Sample ID: 880-21034-11 MS
Matrix: Solid
Analysis Batch: 38582

Client Sample ID: B-12-4'-103122
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2760		1350	4179		mg/Kg	☼	106	90 - 110		

Lab Sample ID: 880-21034-11 MSD
Matrix: Solid
Analysis Batch: 38582

Client Sample ID: B-12-4'-103122
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2760		1350	4152		mg/Kg	☼	104	90 - 110	1	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38606/1-A
Matrix: Solid
Analysis Batch: 38645

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			11/03/22 11:47	1

Lab Sample ID: LCS 880-38606/2-A
Matrix: Solid
Analysis Batch: 38645

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	231.5		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-38606/3-A
Matrix: Solid
Analysis Batch: 38645

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	231.4		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-3362-22 MS
Matrix: Solid
Analysis Batch: 38645

Client Sample ID: b-27-4-110222
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1340	F1	2490	4238	F1	mg/Kg		116	90 - 110

Lab Sample ID: 890-3362-22 MSD
Matrix: Solid
Analysis Batch: 38645

Client Sample ID: b-27-4-110222
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1340	F1	2490	4244	F1	mg/Kg		117	90 - 110	0	20

Lab Sample ID: MB 880-38597/1-A
Matrix: Solid
Analysis Batch: 38646

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			11/03/22 15:12	1

Lab Sample ID: LCS 880-38597/2-A
Matrix: Solid
Analysis Batch: 38646

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.3		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-38597/3-A
Matrix: Solid
Analysis Batch: 38646

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	240.6		mg/Kg		96	90 - 110	1	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-3362-1 MS
Matrix: Solid
Analysis Batch: 38646

Client Sample ID: SW-1-0-4-110122
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	283		249	528.7		mg/Kg		99	90 - 110

Lab Sample ID: 890-3362-1 MSD
Matrix: Solid
Analysis Batch: 38646

Client Sample ID: SW-1-0-4-110122
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	283		249	525.6		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-3362-A-11-B MS
Matrix: Solid
Analysis Batch: 38646

Client Sample ID: 890-3362-A-11-B MS
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	601		250	835.6		mg/Kg		94	90 - 110

Lab Sample ID: 890-3362-A-11-C MSD
Matrix: Solid
Analysis Batch: 38646

Client Sample ID: 890-3362-A-11-C MSD
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	601		250	818.4	F1	mg/Kg		87	90 - 110	2	20

Lab Sample ID: MB 880-38811/1-A
Matrix: Solid
Analysis Batch: 38853

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			11/07/22 10:29	1

Lab Sample ID: LCS 880-38811/2-A
Matrix: Solid
Analysis Batch: 38853

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.4		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-38811/3-A
Matrix: Solid
Analysis Batch: 38853

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	262.0		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-3387-1 MS
Matrix: Solid
Analysis Batch: 38853

Client Sample ID: SW-6A-0-4-110322
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	62.9		252	331.4		mg/Kg		107	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-3387-1 MSD
Matrix: Solid
Analysis Batch: 38853

Client Sample ID: SW-6A-0-4-110322
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	62.9		252	331.4		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-3387-11 MS
Matrix: Solid
Analysis Batch: 38853

Client Sample ID: B-50-4-110322
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2260	F1	1250	3913	F1	mg/Kg		133	90 - 110

Lab Sample ID: 890-3387-11 MSD
Matrix: Solid
Analysis Batch: 38853

Client Sample ID: B-50-4-110322
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2260	F1	1250	3863	F1	mg/Kg		129	90 - 110	1	20

Lab Sample ID: MB 880-39010/1-A
Matrix: Solid
Analysis Batch: 39047

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			11/08/22 15:40	1

Lab Sample ID: LCS 880-39010/2-A
Matrix: Solid
Analysis Batch: 39047

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.3		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-39010/3-A
Matrix: Solid
Analysis Batch: 39047

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	259.7		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-3367-1 MS
Matrix: Solid
Analysis Batch: 39047

Client Sample ID: B-28-4-110222
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	186		250	440.7		mg/Kg		102	90 - 110

Lab Sample ID: 890-3367-1 MSD
Matrix: Solid
Analysis Batch: 39047

Client Sample ID: B-28-4-110222
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	186		250	441.7		mg/Kg		102	90 - 110	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39064/1-A
Matrix: Solid
Analysis Batch: 39085

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			11/09/22 09:55	1

Lab Sample ID: LCS 880-39064/2-A
Matrix: Solid
Analysis Batch: 39085

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.1		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-39064/3-A
Matrix: Solid
Analysis Batch: 39085

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	258.4		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-39102/1-A
Matrix: Solid
Analysis Batch: 39112

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			11/09/22 13:24	1

Lab Sample ID: LCS 880-39102/2-A
Matrix: Solid
Analysis Batch: 39112

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-39102/3-A
Matrix: Solid
Analysis Batch: 39112

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	256.6		mg/Kg		103	90 - 110	2	20

Lab Sample ID: 890-3417-1 MS
Matrix: Solid
Analysis Batch: 39112

Client Sample ID: SW-8A-0'-4'-110722
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	48.1		248	290.3		mg/Kg		98	90 - 110

Lab Sample ID: 890-3417-1 MSD
Matrix: Solid
Analysis Batch: 39112

Client Sample ID: SW-8A-0'-4'-110722
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	48.1		248	291.8		mg/Kg		98	90 - 110	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-3417-11 MS
Matrix: Solid
Analysis Batch: 39112

Client Sample ID: SW-12-0'-4'-110722
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	101		250	342.3		mg/Kg		97	90 - 110

Lab Sample ID: 890-3417-11 MSD
Matrix: Solid
Analysis Batch: 39112

Client Sample ID: SW-12-0'-4'-110722
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	101		250	367.1		mg/Kg		106	90 - 110	7	20

Lab Sample ID: MB 880-39732/1-A
Matrix: Solid
Analysis Batch: 39774

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			11/17/22 03:02	1

Lab Sample ID: LCS 880-39732/2-A
Matrix: Solid
Analysis Batch: 39774

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.5		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-39732/3-A
Matrix: Solid
Analysis Batch: 39774

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	259.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-3462-1 MS
Matrix: Solid
Analysis Batch: 39774

Client Sample ID: SW-10A-0-4-111422
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	82.7		253	343.1		mg/Kg		103	90 - 110

Lab Sample ID: 890-3462-1 MSD
Matrix: Solid
Analysis Batch: 39774

Client Sample ID: SW-10A-0-4-111422
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	82.7		253	341.1		mg/Kg		102	90 - 110	1	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA

Prep Batch: 38099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-38099/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 38214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20838-1	B-1-4'-102522	Total/NA	Solid	8021B	38264
880-20838-2	B-2-4'-102522	Total/NA	Solid	8021B	38264
890-3298-1	SW-3-0'-4'-102522	Total/NA	Solid	8021B	38264
890-3298-2	TP-6-0'-4'-102622	Total/NA	Solid	8021B	38264
MB 880-38099/5-A	Method Blank	Total/NA	Solid	8021B	38099
MB 880-38264/5-A	Method Blank	Total/NA	Solid	8021B	38264
LCS 880-38264/1-A	Lab Control Sample	Total/NA	Solid	8021B	38264
LCSD 880-38264/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38264

Prep Batch: 38264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20838-1	B-1-4'-102522	Total/NA	Solid	5030B	
880-20838-2	B-2-4'-102522	Total/NA	Solid	5030B	
890-3298-1	SW-3-0'-4'-102522	Total/NA	Solid	5035	
890-3298-2	TP-6-0'-4'-102622	Total/NA	Solid	5035	
MB 880-38264/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-38264/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-38264/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 38292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3318-1	SW-5-0'-4-102722	Total/NA	Solid	5035	
890-3318-2	SW-6-0'-4'-102722	Total/NA	Solid	5035	
MB 880-38292/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38292/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38292/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 38317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3318-1	SW-5-0'-4-102722	Total/NA	Solid	8021B	38292
890-3318-2	SW-6-0'-4'-102722	Total/NA	Solid	8021B	38292
MB 880-38292/5-A	Method Blank	Total/NA	Solid	8021B	38292
LCS 880-38292/1-A	Lab Control Sample	Total/NA	Solid	8021B	38292
LCSD 880-38292/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38292

Analysis Batch: 38341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3298-1	SW-3-0'-4'-102522	Total/NA	Solid	Total BTEX	
890-3298-2	TP-6-0'-4'-102622	Total/NA	Solid	Total BTEX	

Analysis Batch: 38410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20838-1	B-1-4'-102522	Total/NA	Solid	Total BTEX	
880-20838-2	B-2-4'-102522	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA

Analysis Batch: 38461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3318-1	SW-5-0'-4-102722	Total/NA	Solid	Total BTEX	
890-3318-2	SW-6-0'-4'-102722	Total/NA	Solid	Total BTEX	

Prep Batch: 38531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1	SW-4-0'-4'-103122	Total/NA	Solid	5030B	
880-21034-2	B-3-4'-103122	Total/NA	Solid	5030B	
880-21034-3	B-4-4'-103122	Total/NA	Solid	5030B	
880-21034-4	B-5-4'-103122	Total/NA	Solid	5030B	
880-21034-5	B-6-4'-103122	Total/NA	Solid	5030B	
880-21034-6	B-7-4'-103122	Total/NA	Solid	5030B	
880-21034-7	B-8-4'-103122	Total/NA	Solid	5030B	
880-21034-8	B-9-4'-103122	Total/NA	Solid	5030B	
880-21034-9	B-10-4'-103122	Total/NA	Solid	5030B	
880-21034-10	B-11-4'-103122	Total/NA	Solid	5030B	
880-21034-11	B-12-4'-103122	Total/NA	Solid	5030B	
880-21034-12	B-13-4'-103122	Total/NA	Solid	5030B	
880-21034-13	B-14-4'-103122	Total/NA	Solid	5030B	
880-21034-14	B-15-4'-103122	Total/NA	Solid	5030B	
880-21034-15	B-16-4'-103122	Total/NA	Solid	5030B	
MB 880-38531/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-38531/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-38531/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-21034-1 MS	SW-4-0'-4'-103122	Total/NA	Solid	5030B	
880-21034-1 MSD	SW-4-0'-4'-103122	Total/NA	Solid	5030B	

Prep Batch: 38630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-1	SW-1-0-4-110122	Total/NA	Solid	5035	
890-3362-2	SW-2-0-4-110122	Total/NA	Solid	5035	
890-3362-3	SW-9-0-4-110122	Total/NA	Solid	5035	
890-3362-4	B-29-4-110122	Total/NA	Solid	5035	
890-3362-5	B-30-4-110122	Total/NA	Solid	5035	
890-3362-6	B-31-4-110122	Total/NA	Solid	5035	
890-3362-7	B-32-4-11012	Total/NA	Solid	5035	
890-3362-8	B-33-4-110122	Total/NA	Solid	5035	
890-3362-9	B-34-4-110122	Total/NA	Solid	5035	
890-3362-10	SW-7-0-4-110122	Total/NA	Solid	5035	
890-3362-11	SW-8-0-4-110122	Total/NA	Solid	5035	
890-3362-12	B-17-4-110122	Total/NA	Solid	5035	
890-3362-13	B-18-4-110122	Total/NA	Solid	5035	
890-3362-14	B-19-4-110122	Total/NA	Solid	5035	
890-3362-15	B-20-4-110122	Total/NA	Solid	5035	
890-3362-16	B-21-4-110122	Total/NA	Solid	5035	
890-3362-17	B-22-4-110122	Total/NA	Solid	5035	
890-3362-18	B-23-4-110211	Total/NA	Solid	5035	
890-3362-19	B-24-4-110122	Total/NA	Solid	5035	
890-3362-20	B-25-4-110122	Total/NA	Solid	5035	
MB 880-38630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA (Continued)

Prep Batch: 38630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-1 MS	SW-1-0-4-110122	Total/NA	Solid	5035	
890-3362-1 MSD	SW-1-0-4-110122	Total/NA	Solid	5035	

Prep Batch: 38647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-21	B-26-4-110222	Total/NA	Solid	5035	
890-3362-22	b-27-4-110222	Total/NA	Solid	5035	
MB 880-38647/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38647/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38647/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 38697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-1	SW-1-0-4-110122	Total/NA	Solid	8021B	38630
890-3362-2	SW-2-0-4-110122	Total/NA	Solid	8021B	38630
890-3362-3	SW-9-0-4-110122	Total/NA	Solid	8021B	38630
890-3362-4	B-29-4-110122	Total/NA	Solid	8021B	38630
890-3362-5	B-30-4-110122	Total/NA	Solid	8021B	38630
890-3362-6	B-31-4-110122	Total/NA	Solid	8021B	38630
890-3362-7	B-32-4-11012	Total/NA	Solid	8021B	38630
890-3362-8	B-33-4-110122	Total/NA	Solid	8021B	38630
890-3362-9	B-34-4-110122	Total/NA	Solid	8021B	38630
890-3362-10	SW-7-0-4-110122	Total/NA	Solid	8021B	38630
890-3362-11	SW-8-0-4-110122	Total/NA	Solid	8021B	38630
890-3362-12	B-17-4-110122	Total/NA	Solid	8021B	38630
890-3362-13	B-18-4-110122	Total/NA	Solid	8021B	38630
890-3362-14	B-19-4-110122	Total/NA	Solid	8021B	38630
890-3362-15	B-20-4-110122	Total/NA	Solid	8021B	38630
890-3362-16	B-21-4-110122	Total/NA	Solid	8021B	38630
890-3362-17	B-22-4-110122	Total/NA	Solid	8021B	38630
890-3362-18	B-23-4-110211	Total/NA	Solid	8021B	38630
890-3362-19	B-24-4-110122	Total/NA	Solid	8021B	38630
890-3362-20	B-25-4-110122	Total/NA	Solid	8021B	38630
MB 880-38630/5-A	Method Blank	Total/NA	Solid	8021B	38630
LCS 880-38630/1-A	Lab Control Sample	Total/NA	Solid	8021B	38630
LCSD 880-38630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38630
890-3362-1 MS	SW-1-0-4-110122	Total/NA	Solid	8021B	38630
890-3362-1 MSD	SW-1-0-4-110122	Total/NA	Solid	8021B	38630

Analysis Batch: 38705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-21	B-26-4-110222	Total/NA	Solid	8021B	38647
890-3362-22	b-27-4-110222	Total/NA	Solid	8021B	38647
MB 880-38647/5-A	Method Blank	Total/NA	Solid	8021B	38647
LCS 880-38647/1-A	Lab Control Sample	Total/NA	Solid	8021B	38647
LCSD 880-38647/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38647

Analysis Batch: 38753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-1	SW-1-0-4-110122	Total/NA	Solid	Total BTEX	
890-3362-2	SW-2-0-4-110122	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA (Continued)

Analysis Batch: 38753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-3	SW-9-0-4-110122	Total/NA	Solid	Total BTEX	
890-3362-4	B-29-4-110122	Total/NA	Solid	Total BTEX	
890-3362-5	B-30-4-110122	Total/NA	Solid	Total BTEX	
890-3362-6	B-31-4-110122	Total/NA	Solid	Total BTEX	
890-3362-7	B-32-4-11012	Total/NA	Solid	Total BTEX	
890-3362-8	B-33-4-110122	Total/NA	Solid	Total BTEX	
890-3362-9	B-34-4-110122	Total/NA	Solid	Total BTEX	
890-3362-10	SW-7-0-4-110122	Total/NA	Solid	Total BTEX	
890-3362-11	SW-8-0-4-110122	Total/NA	Solid	Total BTEX	
890-3362-12	B-17-4-110122	Total/NA	Solid	Total BTEX	
890-3362-13	B-18-4-110122	Total/NA	Solid	Total BTEX	
890-3362-14	B-19-4-110122	Total/NA	Solid	Total BTEX	
890-3362-15	B-20-4-110122	Total/NA	Solid	Total BTEX	
890-3362-16	B-21-4-110122	Total/NA	Solid	Total BTEX	
890-3362-17	B-22-4-110122	Total/NA	Solid	Total BTEX	
890-3362-18	B-23-4-110211	Total/NA	Solid	Total BTEX	
890-3362-19	B-24-4-110122	Total/NA	Solid	Total BTEX	
890-3362-20	B-25-4-110122	Total/NA	Solid	Total BTEX	
890-3362-21	B-26-4-110222	Total/NA	Solid	Total BTEX	
890-3362-22	b-27-4-110222	Total/NA	Solid	Total BTEX	

Analysis Batch: 38810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1	SW-4-0'-4'-103122	Total/NA	Solid	8021B	38531
880-21034-2	B-3-4'-103122	Total/NA	Solid	8021B	38531
880-21034-3	B-4-4'-103122	Total/NA	Solid	8021B	38531
880-21034-4	B-5-4'-103122	Total/NA	Solid	8021B	38531
880-21034-5	B-6-4'-103122	Total/NA	Solid	8021B	38531
880-21034-6	B-7-4'-103122	Total/NA	Solid	8021B	38531
880-21034-7	B-8-4'-103122	Total/NA	Solid	8021B	38531
880-21034-8	B-9-4'-103122	Total/NA	Solid	8021B	38531
880-21034-9	B-10-4'-103122	Total/NA	Solid	8021B	38531
880-21034-10	B-11-4'-103122	Total/NA	Solid	8021B	38531
880-21034-11	B-12-4'-103122	Total/NA	Solid	8021B	38531
880-21034-12	B-13-4'-103122	Total/NA	Solid	8021B	38531
880-21034-13	B-14-4'-103122	Total/NA	Solid	8021B	38531
880-21034-14	B-15-4'-103122	Total/NA	Solid	8021B	38531
880-21034-15	B-16-4'-103122	Total/NA	Solid	8021B	38531
MB 880-38531/5-A	Method Blank	Total/NA	Solid	8021B	38531
MB 880-38855/5-A	Method Blank	Total/NA	Solid	8021B	38855
LCS 880-38531/1-A	Lab Control Sample	Total/NA	Solid	8021B	38531
LCSD 880-38531/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38531
880-21034-1 MS	SW-4-0'-4'-103122	Total/NA	Solid	8021B	38531
880-21034-1 MSD	SW-4-0'-4'-103122	Total/NA	Solid	8021B	38531

Prep Batch: 38855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-38855/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA

Prep Batch: 38880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3367-1	B-28-4-110222	Total/NA	Solid	5035	
890-3367-2	B-35-4-110222	Total/NA	Solid	5035	
890-3367-3	B-36-4-110222	Total/NA	Solid	5035	
890-3367-4	B-37-4-110222	Total/NA	Solid	5035	
890-3367-5	B-38-4-110222	Total/NA	Solid	5035	
890-3367-6	B-39-4-110222	Total/NA	Solid	5035	
890-3367-7	B-40-4-110222	Total/NA	Solid	5035	
890-3367-8	B-41-4-110222	Total/NA	Solid	5035	
890-3367-9	B-42-4-110222	Total/NA	Solid	5035	
MB 880-38880/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38880/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38880/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 38952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3367-1	B-28-4-110222	Total/NA	Solid	8021B	38880
890-3367-2	B-35-4-110222	Total/NA	Solid	8021B	38880
890-3367-3	B-36-4-110222	Total/NA	Solid	8021B	38880
890-3367-4	B-37-4-110222	Total/NA	Solid	8021B	38880
890-3367-5	B-38-4-110222	Total/NA	Solid	8021B	38880
890-3367-6	B-39-4-110222	Total/NA	Solid	8021B	38880
890-3367-7	B-40-4-110222	Total/NA	Solid	8021B	38880
890-3367-8	B-41-4-110222	Total/NA	Solid	8021B	38880
890-3367-9	B-42-4-110222	Total/NA	Solid	8021B	38880
MB 880-38880/5-A	Method Blank	Total/NA	Solid	8021B	38880
LCS 880-38880/1-A	Lab Control Sample	Total/NA	Solid	8021B	38880
LCSD 880-38880/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38880

Analysis Batch: 39006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1	SW-4-0'-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-2	B-3-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-3	B-4-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-4	B-5-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-5	B-6-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-6	B-7-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-7	B-8-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-8	B-9-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-9	B-10-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-10	B-11-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-11	B-12-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-12	B-13-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-13	B-14-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-14	B-15-4'-103122	Total/NA	Solid	Total BTEX	
880-21034-15	B-16-4'-103122	Total/NA	Solid	Total BTEX	

Analysis Batch: 39087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3367-1	B-28-4-110222	Total/NA	Solid	Total BTEX	
890-3367-2	B-35-4-110222	Total/NA	Solid	Total BTEX	
890-3367-3	B-36-4-110222	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA (Continued)

Analysis Batch: 39087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3367-4	B-37-4-110222	Total/NA	Solid	Total BTEX	
890-3367-5	B-38-4-110222	Total/NA	Solid	Total BTEX	
890-3367-6	B-39-4-110222	Total/NA	Solid	Total BTEX	
890-3367-7	B-40-4-110222	Total/NA	Solid	Total BTEX	
890-3367-8	B-41-4-110222	Total/NA	Solid	Total BTEX	
890-3367-9	B-42-4-110222	Total/NA	Solid	Total BTEX	

Prep Batch: 39127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-1	SW-6A-0-4-110322	Total/NA	Solid	5035	
890-3387-2	SW-11-0-4-110322	Total/NA	Solid	5035	
890-3387-3	SW-10-0-4-110322	Total/NA	Solid	5035	
890-3387-4	B-43-4-110322	Total/NA	Solid	5035	
890-3387-5	B-44-4-110322	Total/NA	Solid	5035	
890-3387-6	B-45-4-110322	Total/NA	Solid	5035	
890-3387-7	B-46-4-110322	Total/NA	Solid	5035	
890-3387-8	B-47-4-110322	Total/NA	Solid	5035	
890-3387-9	B-48-4-110322	Total/NA	Solid	5035	
890-3387-10	B-49-4-110322	Total/NA	Solid	5035	
890-3387-11	B-50-4-110322	Total/NA	Solid	5035	
890-3387-12	B-51-4-110322	Total/NA	Solid	5035	
890-3387-13	B-52-4-110322	Total/NA	Solid	5035	
890-3387-14	B-53-4-110322	Total/NA	Solid	5035	
890-3387-15	B-54-4-110322	Total/NA	Solid	5035	
890-3387-16	B-55-4-110322	Total/NA	Solid	5035	
890-3387-17	B-56-4-110322	Total/NA	Solid	5035	
890-3387-18	B-57-4-110322	Total/NA	Solid	5035	
MB 880-39127/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39127/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39127/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3387-1 MS	SW-6A-0-4-110322	Total/NA	Solid	5035	
890-3387-1 MSD	SW-6A-0-4-110322	Total/NA	Solid	5035	

Prep Batch: 39138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-39138/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 39144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-1	SW-8A-0'-4'-110722	Total/NA	Solid	5035	
890-3417-2	B-65-4'-110822	Total/NA	Solid	5035	
890-3417-3	B-66-4'-110822	Total/NA	Solid	5035	
890-3417-4	B-67-4'-110822	Total/NA	Solid	5035	
890-3417-5	B-68-4'-110822	Total/NA	Solid	5035	
890-3417-6	B-69-4'-110822	Total/NA	Solid	5035	
890-3417-7	B-70-4'-110822	Total/NA	Solid	5035	
890-3417-8	B-71-4'-110822	Total/NA	Solid	5035	
890-3417-9	B-72-4'-110822	Total/NA	Solid	5035	
890-3417-10	B-73-4'-110822	Total/NA	Solid	5035	
890-3417-11	SW-12-0'-4'-110722	Total/NA	Solid	5035	
890-3417-12	SW-13-0'-4'-110722	Total/NA	Solid	5035	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA (Continued)

Prep Batch: 39144 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-13	SW-14-0'-4'-110722	Total/NA	Solid	5035	
890-3417-14	B-57-4'-110722	Total/NA	Solid	5035	
890-3417-15	B-58-4'-110822	Total/NA	Solid	5035	
890-3417-16	B-59-4'-110822	Total/NA	Solid	5035	
890-3417-17	B-60-4'-110722	Total/NA	Solid	5035	
890-3417-18	B-61-4'-110722	Total/NA	Solid	5035	
890-3417-19	B-62-4'-110722	Total/NA	Solid	5035	
890-3417-20	B-63-4'-110722	Total/NA	Solid	5035	
MB 880-39144/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39144/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39144/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3417-1 MS	SW-8A-0'-4'-110722	Total/NA	Solid	5035	
890-3417-1 MSD	SW-8A-0'-4'-110722	Total/NA	Solid	5035	

Prep Batch: 39145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-21	B-64-4'-110722	Total/NA	Solid	5035	
MB 880-39145/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39145/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39145/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 39343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-1	SW-6A-0-4-110322	Total/NA	Solid	8021B	39127
890-3387-2	SW-11-0-4-110322	Total/NA	Solid	8021B	39127
890-3387-3	SW-10-0-4-110322	Total/NA	Solid	8021B	39127
890-3387-4	B-43-4-110322	Total/NA	Solid	8021B	39127
890-3387-5	B-44-4-110322	Total/NA	Solid	8021B	39127
890-3387-6	B-45-4-110322	Total/NA	Solid	8021B	39127
890-3387-7	B-46-4-110322	Total/NA	Solid	8021B	39127
890-3387-8	B-47-4-110322	Total/NA	Solid	8021B	39127
890-3387-9	B-48-4-110322	Total/NA	Solid	8021B	39127
890-3387-10	B-49-4-110322	Total/NA	Solid	8021B	39127
890-3387-11	B-50-4-110322	Total/NA	Solid	8021B	39127
890-3387-12	B-51-4-110322	Total/NA	Solid	8021B	39127
890-3387-13	B-52-4-110322	Total/NA	Solid	8021B	39127
890-3387-14	B-53-4-110322	Total/NA	Solid	8021B	39127
890-3387-15	B-54-4-110322	Total/NA	Solid	8021B	39127
890-3387-16	B-55-4-110322	Total/NA	Solid	8021B	39127
890-3387-17	B-56-4-110322	Total/NA	Solid	8021B	39127
890-3387-18	B-57-4-110322	Total/NA	Solid	8021B	39127
MB 880-39127/5-A	Method Blank	Total/NA	Solid	8021B	39127
MB 880-39138/5-A	Method Blank	Total/NA	Solid	8021B	39138
LCS 880-39127/1-A	Lab Control Sample	Total/NA	Solid	8021B	39127
LCSD 880-39127/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39127
890-3387-1 MS	SW-6A-0-4-110322	Total/NA	Solid	8021B	39127
890-3387-1 MSD	SW-6A-0-4-110322	Total/NA	Solid	8021B	39127

Analysis Batch: 39370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-1	SW-8A-0'-4'-110722	Total/NA	Solid	8021B	39144

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA (Continued)

Analysis Batch: 39370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-2	B-65-4'-110822	Total/NA	Solid	8021B	39144
890-3417-3	B-66-4'-110822	Total/NA	Solid	8021B	39144
890-3417-4	B-67-4'-110822	Total/NA	Solid	8021B	39144
890-3417-5	B-68-4'-110822	Total/NA	Solid	8021B	39144
890-3417-6	B-69-4'-110822	Total/NA	Solid	8021B	39144
890-3417-7	B-70-4'-110822	Total/NA	Solid	8021B	39144
890-3417-8	B-71-4'-110822	Total/NA	Solid	8021B	39144
890-3417-9	B-72-4'-110822	Total/NA	Solid	8021B	39144
890-3417-10	B-73-4'-110822	Total/NA	Solid	8021B	39144
890-3417-11	SW-12-0'-4'-110722	Total/NA	Solid	8021B	39144
890-3417-12	SW-13-0'-4'-110722	Total/NA	Solid	8021B	39144
890-3417-13	SW-14-0'-4'-110722	Total/NA	Solid	8021B	39144
890-3417-14	B-57-4'-110722	Total/NA	Solid	8021B	39144
890-3417-15	B-58-4'-110822	Total/NA	Solid	8021B	39144
890-3417-16	B-59-4'-110822	Total/NA	Solid	8021B	39144
890-3417-17	B-60-4'-110722	Total/NA	Solid	8021B	39144
890-3417-18	B-61-4'-110722	Total/NA	Solid	8021B	39144
890-3417-19	B-62-4'-110722	Total/NA	Solid	8021B	39144
890-3417-20	B-63-4'-110722	Total/NA	Solid	8021B	39144
890-3417-21	B-64-4'-110722	Total/NA	Solid	8021B	39145
MB 880-39144/5-A	Method Blank	Total/NA	Solid	8021B	39144
MB 880-39145/5-A	Method Blank	Total/NA	Solid	8021B	39145
LCS 880-39144/1-A	Lab Control Sample	Total/NA	Solid	8021B	39144
LCS 880-39145/1-A	Lab Control Sample	Total/NA	Solid	8021B	39145
LCSD 880-39144/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39144
LCSD 880-39145/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39145
890-3417-1 MS	SW-8A-0'-4'-110722	Total/NA	Solid	8021B	39144
890-3417-1 MSD	SW-8A-0'-4'-110722	Total/NA	Solid	8021B	39144

Analysis Batch: 39484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-1	SW-6A-0-4-110322	Total/NA	Solid	Total BTEX	
890-3387-2	SW-11-0-4-110322	Total/NA	Solid	Total BTEX	
890-3387-3	SW-10-0-4-110322	Total/NA	Solid	Total BTEX	
890-3387-4	B-43-4-110322	Total/NA	Solid	Total BTEX	
890-3387-5	B-44-4-110322	Total/NA	Solid	Total BTEX	
890-3387-6	B-45-4-110322	Total/NA	Solid	Total BTEX	
890-3387-7	B-46-4-110322	Total/NA	Solid	Total BTEX	
890-3387-8	B-47-4-110322	Total/NA	Solid	Total BTEX	
890-3387-9	B-48-4-110322	Total/NA	Solid	Total BTEX	
890-3387-10	B-49-4-110322	Total/NA	Solid	Total BTEX	
890-3387-11	B-50-4-110322	Total/NA	Solid	Total BTEX	
890-3387-12	B-51-4-110322	Total/NA	Solid	Total BTEX	
890-3387-13	B-52-4-110322	Total/NA	Solid	Total BTEX	
890-3387-14	B-53-4-110322	Total/NA	Solid	Total BTEX	
890-3387-15	B-54-4-110322	Total/NA	Solid	Total BTEX	
890-3387-16	B-55-4-110322	Total/NA	Solid	Total BTEX	
890-3387-17	B-56-4-110322	Total/NA	Solid	Total BTEX	
890-3387-18	B-57-4-110322	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA

Analysis Batch: 39549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-1	SW-8A-0'-4'-110722	Total/NA	Solid	Total BTEX	
890-3417-2	B-65-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-3	B-66-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-4	B-67-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-5	B-68-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-6	B-69-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-7	B-70-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-8	B-71-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-9	B-72-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-10	B-73-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-11	SW-12-0'-4'-110722	Total/NA	Solid	Total BTEX	
890-3417-12	SW-13-0'-4'-110722	Total/NA	Solid	Total BTEX	
890-3417-13	SW-14-0'-4'-110722	Total/NA	Solid	Total BTEX	
890-3417-14	B-57-4'-110722	Total/NA	Solid	Total BTEX	
890-3417-15	B-58-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-16	B-59-4'-110822	Total/NA	Solid	Total BTEX	
890-3417-17	B-60-4'-110722	Total/NA	Solid	Total BTEX	
890-3417-18	B-61-4'-110722	Total/NA	Solid	Total BTEX	
890-3417-19	B-62-4'-110722	Total/NA	Solid	Total BTEX	
890-3417-20	B-63-4'-110722	Total/NA	Solid	Total BTEX	
890-3417-21	B-64-4'-110722	Total/NA	Solid	Total BTEX	

Prep Batch: 39859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3462-1	SW-10A-0-4-111422	Total/NA	Solid	5035	
890-3462-2	B-65A-5-111422	Total/NA	Solid	5035	
890-3462-3	B-66A-5-111422	Total/NA	Solid	5035	
890-3462-4	B-67A-5-111422	Total/NA	Solid	5035	
890-3462-5	B-68A-5-111422	Total/NA	Solid	5035	
MB 880-39859/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39859/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39859/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 40173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3462-1	SW-10A-0-4-111422	Total/NA	Solid	8021B	39859
890-3462-2	B-65A-5-111422	Total/NA	Solid	8021B	39859
890-3462-3	B-66A-5-111422	Total/NA	Solid	8021B	39859
890-3462-4	B-67A-5-111422	Total/NA	Solid	8021B	39859
890-3462-5	B-68A-5-111422	Total/NA	Solid	8021B	39859
MB 880-39859/5-A	Method Blank	Total/NA	Solid	8021B	39859
MB 880-40183/5-A	Method Blank	Total/NA	Solid	8021B	40183
LCS 880-39859/1-A	Lab Control Sample	Total/NA	Solid	8021B	39859
LCSD 880-39859/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39859

Prep Batch: 40183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40183/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC VOA

Analysis Batch: 40336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3462-1	SW-10A-0-4-111422	Total/NA	Solid	Total BTEX	
890-3462-2	B-65A-5-111422	Total/NA	Solid	Total BTEX	
890-3462-3	B-66A-5-111422	Total/NA	Solid	Total BTEX	
890-3462-4	B-67A-5-111422	Total/NA	Solid	Total BTEX	
890-3462-5	B-68A-5-111422	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20838-1	B-1-4'-102522	Total/NA	Solid	TX_1005_S_Prep	
880-20838-2	B-2-4'-102522	Total/NA	Solid	TX_1005_S_Prep	
MB 880-38083/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	
LCS 880-38083/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
LCSD 880-38083/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Prep	

Prep Batch: 38114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3298-1	SW-3-0'-4'-102522	Total/NA	Solid	8015NM Prep	
890-3298-2	TP-6-0'-4'-102622	Total/NA	Solid	8015NM Prep	
MB 880-38114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3298-1 MS	SW-3-0'-4'-102522	Total/NA	Solid	8015NM Prep	
890-3298-1 MSD	SW-3-0'-4'-102522	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20838-1	B-1-4'-102522	Total/NA	Solid	TX 1005	38083
880-20838-2	B-2-4'-102522	Total/NA	Solid	TX 1005	38083
MB 880-38083/1-A	Method Blank	Total/NA	Solid	TX 1005	38083
LCS 880-38083/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	38083
LCSD 880-38083/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	38083

Analysis Batch: 38169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3298-1	SW-3-0'-4'-102522	Total/NA	Solid	8015B NM	38114
890-3298-2	TP-6-0'-4'-102622	Total/NA	Solid	8015B NM	38114
MB 880-38114/1-A	Method Blank	Total/NA	Solid	8015B NM	38114
LCS 880-38114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38114
LCSD 880-38114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38114
890-3298-1 MS	SW-3-0'-4'-102522	Total/NA	Solid	8015B NM	38114
890-3298-1 MSD	SW-3-0'-4'-102522	Total/NA	Solid	8015B NM	38114

Analysis Batch: 38208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20838-1	B-1-4'-102522	Total/NA	Solid	TX 1005	
880-20838-2	B-2-4'-102522	Total/NA	Solid	TX 1005	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC Semi VOA

Analysis Batch: 38217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3318-1	SW-5-0'-4-102722	Total/NA	Solid	8015B NM	38261
890-3318-2	SW-6-0'-4'-102722	Total/NA	Solid	8015B NM	38261
MB 880-38261/1-A	Method Blank	Total/NA	Solid	8015B NM	38261
LCS 880-38261/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38261
LCSD 880-38261/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38261

Prep Batch: 38261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3318-1	SW-5-0'-4-102722	Total/NA	Solid	8015NM Prep	
890-3318-2	SW-6-0'-4'-102722	Total/NA	Solid	8015NM Prep	
MB 880-38261/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38261/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38261/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3298-1	SW-3-0'-4'-102522	Total/NA	Solid	8015 NM	
890-3298-2	TP-6-0'-4'-102622	Total/NA	Solid	8015 NM	

Analysis Batch: 38389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3318-1	SW-5-0'-4-102722	Total/NA	Solid	8015 NM	
890-3318-2	SW-6-0'-4'-102722	Total/NA	Solid	8015 NM	

Prep Batch: 38644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-21	B-26-4-110222	Total/NA	Solid	8015NM Prep	
890-3362-22	b-27-4-110222	Total/NA	Solid	8015NM Prep	
MB 880-38644/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38644/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38644/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 38652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-1	SW-1-0-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-2	SW-2-0-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-3	SW-9-0-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-4	B-29-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-5	B-30-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-6	B-31-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-7	B-32-4-11012	Total/NA	Solid	8015NM Prep	
890-3362-8	B-33-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-9	B-34-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-10	SW-7-0-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-11	SW-8-0-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-12	B-17-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-13	B-18-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-14	B-19-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-15	B-20-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-16	B-21-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-17	B-22-4-110122	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC Semi VOA (Continued)

Prep Batch: 38652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-18	B-23-4-110211	Total/NA	Solid	8015NM Prep	
890-3362-19	B-24-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-20	B-25-4-110122	Total/NA	Solid	8015NM Prep	
MB 880-38652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3362-1 MS	SW-1-0-4-110122	Total/NA	Solid	8015NM Prep	
890-3362-1 MSD	SW-1-0-4-110122	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-21	B-26-4-110222	Total/NA	Solid	8015B NM	38644
890-3362-22	b-27-4-110222	Total/NA	Solid	8015B NM	38644
MB 880-38644/1-A	Method Blank	Total/NA	Solid	8015B NM	38644
LCS 880-38644/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38644
LCSD 880-38644/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38644

Analysis Batch: 38692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1	SW-4-0'-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-2	B-3-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-3	B-4-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-4	B-5-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-5	B-6-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-6	B-7-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-7	B-8-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-8	B-9-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-9	B-10-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-10	B-11-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-11	B-12-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-12	B-13-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-13	B-14-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-14	B-15-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-15	B-16-4'-103122	Total/NA	Solid	8015B NM	38742
890-3362-1	SW-1-0-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-2	SW-2-0-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-3	SW-9-0-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-4	B-29-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-5	B-30-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-6	B-31-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-7	B-32-4-11012	Total/NA	Solid	8015B NM	38652
890-3362-8	B-33-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-9	B-34-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-10	SW-7-0-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-11	SW-8-0-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-12	B-17-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-13	B-18-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-14	B-19-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-15	B-20-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-16	B-21-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-17	B-22-4-110122	Total/NA	Solid	8015B NM	38652

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC Semi VOA (Continued)

Analysis Batch: 38692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-18	B-23-4-110211	Total/NA	Solid	8015B NM	38652
890-3362-19	B-24-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-20	B-25-4-110122	Total/NA	Solid	8015B NM	38652
MB 880-38652/1-A	Method Blank	Total/NA	Solid	8015B NM	38652
MB 880-38742/1-A	Method Blank	Total/NA	Solid	8015B NM	38742
LCS 880-38652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38652
LCS 880-38742/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38742
LCSD 880-38652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38652
LCSD 880-38742/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38742
880-21034-1 MS	SW-4-0'-4'-103122	Total/NA	Solid	8015B NM	38742
880-21034-1 MSD	SW-4-0'-4'-103122	Total/NA	Solid	8015B NM	38742
890-3362-1 MS	SW-1-0-4-110122	Total/NA	Solid	8015B NM	38652
890-3362-1 MSD	SW-1-0-4-110122	Total/NA	Solid	8015B NM	38652

Prep Batch: 38740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3367-1	B-28-4-110222	Total/NA	Solid	8015NM Prep	
890-3367-2	B-35-4-110222	Total/NA	Solid	8015NM Prep	
890-3367-3	B-36-4-110222	Total/NA	Solid	8015NM Prep	
890-3367-4	B-37-4-110222	Total/NA	Solid	8015NM Prep	
890-3367-5	B-38-4-110222	Total/NA	Solid	8015NM Prep	
890-3367-6	B-39-4-110222	Total/NA	Solid	8015NM Prep	
890-3367-7	B-40-4-110222	Total/NA	Solid	8015NM Prep	
890-3367-8	B-41-4-110222	Total/NA	Solid	8015NM Prep	
890-3367-9	B-42-4-110222	Total/NA	Solid	8015NM Prep	
MB 880-38740/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38740/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38740/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 38742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1	SW-4-0'-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-2	B-3-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-3	B-4-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-4	B-5-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-5	B-6-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-6	B-7-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-7	B-8-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-8	B-9-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-9	B-10-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-10	B-11-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-11	B-12-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-12	B-13-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-13	B-14-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-14	B-15-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-15	B-16-4'-103122	Total/NA	Solid	8015NM Prep	
MB 880-38742/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38742/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38742/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21034-1 MS	SW-4-0'-4'-103122	Total/NA	Solid	8015NM Prep	
880-21034-1 MSD	SW-4-0'-4'-103122	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC Semi VOA

Analysis Batch: 38768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3367-1	B-28-4-110222	Total/NA	Solid	8015B NM	38740
890-3367-2	B-35-4-110222	Total/NA	Solid	8015B NM	38740
890-3367-3	B-36-4-110222	Total/NA	Solid	8015B NM	38740
890-3367-4	B-37-4-110222	Total/NA	Solid	8015B NM	38740
890-3367-5	B-38-4-110222	Total/NA	Solid	8015B NM	38740
890-3367-6	B-39-4-110222	Total/NA	Solid	8015B NM	38740
890-3367-7	B-40-4-110222	Total/NA	Solid	8015B NM	38740
890-3367-8	B-41-4-110222	Total/NA	Solid	8015B NM	38740
890-3367-9	B-42-4-110222	Total/NA	Solid	8015B NM	38740
MB 880-38740/1-A	Method Blank	Total/NA	Solid	8015B NM	38740
LCS 880-38740/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38740
LCSD 880-38740/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38740

Analysis Batch: 38870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-1	SW-1-0-4-110122	Total/NA	Solid	8015 NM	
890-3362-2	SW-2-0-4-110122	Total/NA	Solid	8015 NM	
890-3362-3	SW-9-0-4-110122	Total/NA	Solid	8015 NM	
890-3362-4	B-29-4-110122	Total/NA	Solid	8015 NM	
890-3362-5	B-30-4-110122	Total/NA	Solid	8015 NM	
890-3362-6	B-31-4-110122	Total/NA	Solid	8015 NM	
890-3362-7	B-32-4-11012	Total/NA	Solid	8015 NM	
890-3362-8	B-33-4-110122	Total/NA	Solid	8015 NM	
890-3362-9	B-34-4-110122	Total/NA	Solid	8015 NM	
890-3362-10	SW-7-0-4-110122	Total/NA	Solid	8015 NM	
890-3362-11	SW-8-0-4-110122	Total/NA	Solid	8015 NM	
890-3362-12	B-17-4-110122	Total/NA	Solid	8015 NM	
890-3362-13	B-18-4-110122	Total/NA	Solid	8015 NM	
890-3362-14	B-19-4-110122	Total/NA	Solid	8015 NM	
890-3362-15	B-20-4-110122	Total/NA	Solid	8015 NM	
890-3362-16	B-21-4-110122	Total/NA	Solid	8015 NM	
890-3362-17	B-22-4-110122	Total/NA	Solid	8015 NM	
890-3362-18	B-23-4-110211	Total/NA	Solid	8015 NM	
890-3362-19	B-24-4-110122	Total/NA	Solid	8015 NM	
890-3362-20	B-25-4-110122	Total/NA	Solid	8015 NM	
890-3362-21	B-26-4-110222	Total/NA	Solid	8015 NM	
890-3362-22	b-27-4-110222	Total/NA	Solid	8015 NM	

Analysis Batch: 38874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3367-1	B-28-4-110222	Total/NA	Solid	8015 NM	
890-3367-2	B-35-4-110222	Total/NA	Solid	8015 NM	
890-3367-3	B-36-4-110222	Total/NA	Solid	8015 NM	
890-3367-4	B-37-4-110222	Total/NA	Solid	8015 NM	
890-3367-5	B-38-4-110222	Total/NA	Solid	8015 NM	
890-3367-6	B-39-4-110222	Total/NA	Solid	8015 NM	
890-3367-7	B-40-4-110222	Total/NA	Solid	8015 NM	
890-3367-8	B-41-4-110222	Total/NA	Solid	8015 NM	
890-3367-9	B-42-4-110222	Total/NA	Solid	8015 NM	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC Semi VOA

Analysis Batch: 38892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1	SW-4-0'-4'-103122	Total/NA	Solid	8015 NM	
880-21034-2	B-3-4'-103122	Total/NA	Solid	8015 NM	
880-21034-3	B-4-4'-103122	Total/NA	Solid	8015 NM	
880-21034-4	B-5-4'-103122	Total/NA	Solid	8015 NM	
880-21034-5	B-6-4'-103122	Total/NA	Solid	8015 NM	
880-21034-6	B-7-4'-103122	Total/NA	Solid	8015 NM	
880-21034-7	B-8-4'-103122	Total/NA	Solid	8015 NM	
880-21034-8	B-9-4'-103122	Total/NA	Solid	8015 NM	
880-21034-9	B-10-4'-103122	Total/NA	Solid	8015 NM	
880-21034-10	B-11-4'-103122	Total/NA	Solid	8015 NM	
880-21034-11	B-12-4'-103122	Total/NA	Solid	8015 NM	
880-21034-12	B-13-4'-103122	Total/NA	Solid	8015 NM	
880-21034-13	B-14-4'-103122	Total/NA	Solid	8015 NM	
880-21034-14	B-15-4'-103122	Total/NA	Solid	8015 NM	
880-21034-15	B-16-4'-103122	Total/NA	Solid	8015 NM	

Prep Batch: 38923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-1	SW-6A-0-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-2	SW-11-0-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-3	SW-10-0-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-4	B-43-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-5	B-44-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-6	B-45-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-7	B-46-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-8	B-47-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-9	B-48-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-10	B-49-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-11	B-50-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-12	B-51-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-13	B-52-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-14	B-53-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-15	B-54-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-16	B-55-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-17	B-56-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-18	B-57-4-110322	Total/NA	Solid	8015NM Prep	
MB 880-38923/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38923/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38923/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3387-1 MS	SW-6A-0-4-110322	Total/NA	Solid	8015NM Prep	
890-3387-1 MSD	SW-6A-0-4-110322	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-1	SW-6A-0-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-2	SW-11-0-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-3	SW-10-0-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-4	B-43-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-5	B-44-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-6	B-45-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-7	B-46-4-110322	Total/NA	Solid	8015B NM	38923

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC Semi VOA (Continued)

Analysis Batch: 39159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-8	B-47-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-9	B-48-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-10	B-49-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-11	B-50-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-12	B-51-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-13	B-52-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-14	B-53-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-15	B-54-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-16	B-55-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-17	B-56-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-18	B-57-4-110322	Total/NA	Solid	8015B NM	38923
MB 880-38923/1-A	Method Blank	Total/NA	Solid	8015B NM	38923
LCS 880-38923/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38923
LCSD 880-38923/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38923
890-3387-1 MS	SW-6A-0-4-110322	Total/NA	Solid	8015B NM	38923
890-3387-1 MSD	SW-6A-0-4-110322	Total/NA	Solid	8015B NM	38923

Prep Batch: 39172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-21	B-64-4'-110722	Total/NA	Solid	8015NM Prep	
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 39174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-1	SW-8A-0'-4'-110722	Total/NA	Solid	8015NM Prep	
890-3417-2	B-65-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-3	B-66-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-4	B-67-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-5	B-68-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-6	B-69-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-7	B-70-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-8	B-71-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-9	B-72-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-10	B-73-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-11	SW-12-0'-4'-110722	Total/NA	Solid	8015NM Prep	
890-3417-12	SW-13-0'-4'-110722	Total/NA	Solid	8015NM Prep	
890-3417-13	SW-14-0'-4'-110722	Total/NA	Solid	8015NM Prep	
890-3417-14	B-57-4'-110722	Total/NA	Solid	8015NM Prep	
890-3417-15	B-58-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-16	B-59-4'-110822	Total/NA	Solid	8015NM Prep	
890-3417-17	B-60-4'-110722	Total/NA	Solid	8015NM Prep	
890-3417-18	B-61-4'-110722	Total/NA	Solid	8015NM Prep	
890-3417-19	B-62-4'-110722	Total/NA	Solid	8015NM Prep	
890-3417-20	B-63-4'-110722	Total/NA	Solid	8015NM Prep	
MB 880-39174/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39174/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39174/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3417-1 MS	SW-8A-0'-4'-110722	Total/NA	Solid	8015NM Prep	
890-3417-1 MSD	SW-8A-0'-4'-110722	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC Semi VOA

Analysis Batch: 39269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-21	B-64-4'-110722	Total/NA	Solid	8015B NM	39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-1	SW-6A-0-4-110322	Total/NA	Solid	8015 NM	
890-3387-2	SW-11-0-4-110322	Total/NA	Solid	8015 NM	
890-3387-3	SW-10-0-4-110322	Total/NA	Solid	8015 NM	
890-3387-4	B-43-4-110322	Total/NA	Solid	8015 NM	
890-3387-5	B-44-4-110322	Total/NA	Solid	8015 NM	
890-3387-6	B-45-4-110322	Total/NA	Solid	8015 NM	
890-3387-7	B-46-4-110322	Total/NA	Solid	8015 NM	
890-3387-8	B-47-4-110322	Total/NA	Solid	8015 NM	
890-3387-9	B-48-4-110322	Total/NA	Solid	8015 NM	
890-3387-10	B-49-4-110322	Total/NA	Solid	8015 NM	
890-3387-11	B-50-4-110322	Total/NA	Solid	8015 NM	
890-3387-12	B-51-4-110322	Total/NA	Solid	8015 NM	
890-3387-13	B-52-4-110322	Total/NA	Solid	8015 NM	
890-3387-14	B-53-4-110322	Total/NA	Solid	8015 NM	
890-3387-15	B-54-4-110322	Total/NA	Solid	8015 NM	
890-3387-16	B-55-4-110322	Total/NA	Solid	8015 NM	
890-3387-17	B-56-4-110322	Total/NA	Solid	8015 NM	
890-3387-18	B-57-4-110322	Total/NA	Solid	8015 NM	

Analysis Batch: 39375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-1	SW-8A-0'-4'-110722	Total/NA	Solid	8015B NM	39174
890-3417-2	B-65-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-3	B-66-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-4	B-67-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-5	B-68-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-6	B-69-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-7	B-70-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-8	B-71-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-9	B-72-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-10	B-73-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-11	SW-12-0'-4'-110722	Total/NA	Solid	8015B NM	39174
890-3417-12	SW-13-0'-4'-110722	Total/NA	Solid	8015B NM	39174
890-3417-13	SW-14-0'-4'-110722	Total/NA	Solid	8015B NM	39174
890-3417-14	B-57-4'-110722	Total/NA	Solid	8015B NM	39174
890-3417-15	B-58-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-16	B-59-4'-110822	Total/NA	Solid	8015B NM	39174
890-3417-17	B-60-4'-110722	Total/NA	Solid	8015B NM	39174
890-3417-18	B-61-4'-110722	Total/NA	Solid	8015B NM	39174
890-3417-19	B-62-4'-110722	Total/NA	Solid	8015B NM	39174
890-3417-20	B-63-4'-110722	Total/NA	Solid	8015B NM	39174
MB 880-39174/1-A	Method Blank	Total/NA	Solid	8015B NM	39174
LCS 880-39174/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39174
LCSD 880-39174/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39174

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC Semi VOA (Continued)

Analysis Batch: 39375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-1 MS	SW-8A-0'-4'-110722	Total/NA	Solid	8015B NM	39174
890-3417-1 MSD	SW-8A-0'-4'-110722	Total/NA	Solid	8015B NM	39174

Analysis Batch: 39409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-1	SW-8A-0'-4'-110722	Total/NA	Solid	8015 NM	
890-3417-2	B-65-4'-110822	Total/NA	Solid	8015 NM	
890-3417-3	B-66-4'-110822	Total/NA	Solid	8015 NM	
890-3417-4	B-67-4'-110822	Total/NA	Solid	8015 NM	
890-3417-5	B-68-4'-110822	Total/NA	Solid	8015 NM	
890-3417-6	B-69-4'-110822	Total/NA	Solid	8015 NM	
890-3417-7	B-70-4'-110822	Total/NA	Solid	8015 NM	
890-3417-8	B-71-4'-110822	Total/NA	Solid	8015 NM	
890-3417-9	B-72-4'-110822	Total/NA	Solid	8015 NM	
890-3417-10	B-73-4'-110822	Total/NA	Solid	8015 NM	
890-3417-11	SW-12-0'-4'-110722	Total/NA	Solid	8015 NM	
890-3417-12	SW-13-0'-4'-110722	Total/NA	Solid	8015 NM	
890-3417-13	SW-14-0'-4'-110722	Total/NA	Solid	8015 NM	
890-3417-14	B-57-4'-110722	Total/NA	Solid	8015 NM	
890-3417-15	B-58-4'-110822	Total/NA	Solid	8015 NM	
890-3417-16	B-59-4'-110822	Total/NA	Solid	8015 NM	
890-3417-17	B-60-4'-110722	Total/NA	Solid	8015 NM	
890-3417-18	B-61-4'-110722	Total/NA	Solid	8015 NM	
890-3417-19	B-62-4'-110722	Total/NA	Solid	8015 NM	
890-3417-20	B-63-4'-110722	Total/NA	Solid	8015 NM	
890-3417-21	B-64-4'-110722	Total/NA	Solid	8015 NM	

Prep Batch: 39787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3462-1	SW-10A-0-4-111422	Total/NA	Solid	8015NM Prep	
890-3462-2	B-65A-5-111422	Total/NA	Solid	8015NM Prep	
890-3462-3	B-66A-5-111422	Total/NA	Solid	8015NM Prep	
890-3462-4	B-67A-5-111422	Total/NA	Solid	8015NM Prep	
890-3462-5	B-68A-5-111422	Total/NA	Solid	8015NM Prep	
MB 880-39787/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39787/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39787/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3462-1	SW-10A-0-4-111422	Total/NA	Solid	8015B NM	39787
890-3462-2	B-65A-5-111422	Total/NA	Solid	8015B NM	39787
890-3462-3	B-66A-5-111422	Total/NA	Solid	8015B NM	39787
890-3462-4	B-67A-5-111422	Total/NA	Solid	8015B NM	39787
890-3462-5	B-68A-5-111422	Total/NA	Solid	8015B NM	39787
MB 880-39787/1-A	Method Blank	Total/NA	Solid	8015B NM	39787
LCS 880-39787/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39787
LCSD 880-39787/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39787

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

GC Semi VOA

Analysis Batch: 40080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3462-1	SW-10A-0-4-111422	Total/NA	Solid	8015 NM	
890-3462-2	B-65A-5-111422	Total/NA	Solid	8015 NM	
890-3462-3	B-66A-5-111422	Total/NA	Solid	8015 NM	
890-3462-4	B-67A-5-111422	Total/NA	Solid	8015 NM	
890-3462-5	B-68A-5-111422	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20838-1	B-1-4'-102522	Soluble	Solid	DI Leach	
880-20838-2	B-2-4'-102522	Soluble	Solid	DI Leach	
MB 880-38009/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38009/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38009/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 38046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20838-1	B-1-4'-102522	Soluble	Solid	300.0	38009
880-20838-2	B-2-4'-102522	Soluble	Solid	300.0	38009
MB 880-38009/1-A	Method Blank	Soluble	Solid	300.0	38009
LCS 880-38009/2-A	Lab Control Sample	Soluble	Solid	300.0	38009
LCSD 880-38009/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38009

Leach Batch: 38086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3298-1	SW-3-0'-4'-102522	Soluble	Solid	DI Leach	
890-3298-2	TP-6-0'-4'-102622	Soluble	Solid	DI Leach	
MB 880-38086/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38086/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38086/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3298-1 MS	SW-3-0'-4'-102522	Soluble	Solid	DI Leach	
890-3298-1 MSD	SW-3-0'-4'-102522	Soluble	Solid	DI Leach	

Analysis Batch: 38100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3298-1	SW-3-0'-4'-102522	Soluble	Solid	300.0	38086
890-3298-2	TP-6-0'-4'-102622	Soluble	Solid	300.0	38086
MB 880-38086/1-A	Method Blank	Soluble	Solid	300.0	38086
LCS 880-38086/2-A	Lab Control Sample	Soluble	Solid	300.0	38086
LCSD 880-38086/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38086
890-3298-1 MS	SW-3-0'-4'-102522	Soluble	Solid	300.0	38086
890-3298-1 MSD	SW-3-0'-4'-102522	Soluble	Solid	300.0	38086

Leach Batch: 38248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3318-1	SW-5-0'-4-102722	Soluble	Solid	DI Leach	
890-3318-2	SW-6-0'-4'-102722	Soluble	Solid	DI Leach	
MB 880-38248/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38248/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38248/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

HPLC/IC

Analysis Batch: 38295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3318-1	SW-5-0'-4-102722	Soluble	Solid	300.0	38248
890-3318-2	SW-6-0'-4'-102722	Soluble	Solid	300.0	38248
MB 880-38248/1-A	Method Blank	Soluble	Solid	300.0	38248
LCS 880-38248/2-A	Lab Control Sample	Soluble	Solid	300.0	38248
LCSD 880-38248/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38248

Leach Batch: 38512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1	SW-4-0'-4'-103122	Soluble	Solid	DI Leach	
880-21034-2	B-3-4'-103122	Soluble	Solid	DI Leach	
880-21034-3	B-4-4'-103122	Soluble	Solid	DI Leach	
880-21034-4	B-5-4'-103122	Soluble	Solid	DI Leach	
880-21034-5	B-6-4'-103122	Soluble	Solid	DI Leach	
880-21034-6	B-7-4'-103122	Soluble	Solid	DI Leach	
880-21034-7	B-8-4'-103122	Soluble	Solid	DI Leach	
880-21034-8	B-9-4'-103122	Soluble	Solid	DI Leach	
880-21034-9	B-10-4'-103122	Soluble	Solid	DI Leach	
880-21034-10	B-11-4'-103122	Soluble	Solid	DI Leach	
880-21034-11	B-12-4'-103122	Soluble	Solid	DI Leach	
880-21034-12	B-13-4'-103122	Soluble	Solid	DI Leach	
880-21034-13	B-14-4'-103122	Soluble	Solid	DI Leach	
880-21034-14	B-15-4'-103122	Soluble	Solid	DI Leach	
880-21034-15	B-16-4'-103122	Soluble	Solid	DI Leach	
MB 880-38512/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38512/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38512/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21034-1 MS	SW-4-0'-4'-103122	Soluble	Solid	DI Leach	
880-21034-1 MSD	SW-4-0'-4'-103122	Soluble	Solid	DI Leach	
880-21034-11 MS	B-12-4'-103122	Soluble	Solid	DI Leach	
880-21034-11 MSD	B-12-4'-103122	Soluble	Solid	DI Leach	

Analysis Batch: 38582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1	SW-4-0'-4'-103122	Soluble	Solid	300.0	38512
880-21034-2	B-3-4'-103122	Soluble	Solid	300.0	38512
880-21034-3	B-4-4'-103122	Soluble	Solid	300.0	38512
880-21034-4	B-5-4'-103122	Soluble	Solid	300.0	38512
880-21034-5	B-6-4'-103122	Soluble	Solid	300.0	38512
880-21034-6	B-7-4'-103122	Soluble	Solid	300.0	38512
880-21034-7	B-8-4'-103122	Soluble	Solid	300.0	38512
880-21034-8	B-9-4'-103122	Soluble	Solid	300.0	38512
880-21034-9	B-10-4'-103122	Soluble	Solid	300.0	38512
880-21034-10	B-11-4'-103122	Soluble	Solid	300.0	38512
880-21034-11	B-12-4'-103122	Soluble	Solid	300.0	38512
880-21034-12	B-13-4'-103122	Soluble	Solid	300.0	38512
880-21034-13	B-14-4'-103122	Soluble	Solid	300.0	38512
880-21034-14	B-15-4'-103122	Soluble	Solid	300.0	38512
880-21034-15	B-16-4'-103122	Soluble	Solid	300.0	38512
MB 880-38512/1-A	Method Blank	Soluble	Solid	300.0	38512
LCS 880-38512/2-A	Lab Control Sample	Soluble	Solid	300.0	38512
LCSD 880-38512/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38512

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

HPLC/IC (Continued)

Analysis Batch: 38582 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1 MS	SW-4-0'-4'-103122	Soluble	Solid	300.0	38512
880-21034-1 MSD	SW-4-0'-4'-103122	Soluble	Solid	300.0	38512
880-21034-11 MS	B-12-4'-103122	Soluble	Solid	300.0	38512
880-21034-11 MSD	B-12-4'-103122	Soluble	Solid	300.0	38512

Leach Batch: 38597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-1	SW-1-0-4-110122	Soluble	Solid	DI Leach	
890-3362-2	SW-2-0-4-110122	Soluble	Solid	DI Leach	
890-3362-3	SW-9-0-4-110122	Soluble	Solid	DI Leach	
890-3362-4	B-29-4-110122	Soluble	Solid	DI Leach	
890-3362-5	B-30-4-110122	Soluble	Solid	DI Leach	
890-3362-6	B-31-4-110122	Soluble	Solid	DI Leach	
890-3362-7	B-32-4-11012	Soluble	Solid	DI Leach	
890-3362-8	B-33-4-110122	Soluble	Solid	DI Leach	
890-3362-9	B-34-4-110122	Soluble	Solid	DI Leach	
890-3362-10	SW-7-0-4-110122	Soluble	Solid	DI Leach	
890-3362-11	SW-8-0-4-110122	Soluble	Solid	DI Leach	
890-3362-12	B-17-4-110122	Soluble	Solid	DI Leach	
890-3362-13	B-18-4-110122	Soluble	Solid	DI Leach	
890-3362-14	B-19-4-110122	Soluble	Solid	DI Leach	
890-3362-15	B-20-4-110122	Soluble	Solid	DI Leach	
890-3362-16	B-21-4-110122	Soluble	Solid	DI Leach	
890-3362-17	B-22-4-110122	Soluble	Solid	DI Leach	
890-3362-18	B-23-4-110211	Soluble	Solid	DI Leach	
890-3362-19	B-24-4-110122	Soluble	Solid	DI Leach	
890-3362-20	B-25-4-110122	Soluble	Solid	DI Leach	
MB 880-38597/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38597/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38597/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3362-1 MS	SW-1-0-4-110122	Soluble	Solid	DI Leach	
890-3362-1 MSD	SW-1-0-4-110122	Soluble	Solid	DI Leach	
890-3362-A-11-B MS	890-3362-A-11-B MS	Soluble	Solid	DI Leach	
890-3362-A-11-C MSD	890-3362-A-11-C MSD	Soluble	Solid	DI Leach	

Leach Batch: 38606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-21	B-26-4-110222	Soluble	Solid	DI Leach	
890-3362-22	b-27-4-110222	Soluble	Solid	DI Leach	
MB 880-38606/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38606/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38606/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3362-22 MS	b-27-4-110222	Soluble	Solid	DI Leach	
890-3362-22 MSD	b-27-4-110222	Soluble	Solid	DI Leach	

Analysis Batch: 38645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-21	B-26-4-110222	Soluble	Solid	300.0	38606
890-3362-22	b-27-4-110222	Soluble	Solid	300.0	38606
MB 880-38606/1-A	Method Blank	Soluble	Solid	300.0	38606
LCS 880-38606/2-A	Lab Control Sample	Soluble	Solid	300.0	38606

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

HPLC/IC (Continued)

Analysis Batch: 38645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-38606/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38606
890-3362-22 MS	b-27-4-110222	Soluble	Solid	300.0	38606
890-3362-22 MSD	b-27-4-110222	Soluble	Solid	300.0	38606

Analysis Batch: 38646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-1	SW-1-0-4-110122	Soluble	Solid	300.0	38597
890-3362-2	SW-2-0-4-110122	Soluble	Solid	300.0	38597
890-3362-3	SW-9-0-4-110122	Soluble	Solid	300.0	38597
890-3362-4	B-29-4-110122	Soluble	Solid	300.0	38597
890-3362-5	B-30-4-110122	Soluble	Solid	300.0	38597
890-3362-6	B-31-4-110122	Soluble	Solid	300.0	38597
890-3362-7	B-32-4-11012	Soluble	Solid	300.0	38597
890-3362-8	B-33-4-110122	Soluble	Solid	300.0	38597
890-3362-9	B-34-4-110122	Soluble	Solid	300.0	38597
890-3362-10	SW-7-0-4-110122	Soluble	Solid	300.0	38597
890-3362-12	B-17-4-110122	Soluble	Solid	300.0	38597
890-3362-13	B-18-4-110122	Soluble	Solid	300.0	38597
890-3362-14	B-19-4-110122	Soluble	Solid	300.0	38597
890-3362-15	B-20-4-110122	Soluble	Solid	300.0	38597
890-3362-16	B-21-4-110122	Soluble	Solid	300.0	38597
890-3362-17	B-22-4-110122	Soluble	Solid	300.0	38597
890-3362-18	B-23-4-110211	Soluble	Solid	300.0	38597
890-3362-19	B-24-4-110122	Soluble	Solid	300.0	38597
890-3362-20	B-25-4-110122	Soluble	Solid	300.0	38597
MB 880-38597/1-A	Method Blank	Soluble	Solid	300.0	38597
LCS 880-38597/2-A	Lab Control Sample	Soluble	Solid	300.0	38597
LCSD 880-38597/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38597
890-3362-1 MS	SW-1-0-4-110122	Soluble	Solid	300.0	38597
890-3362-1 MSD	SW-1-0-4-110122	Soluble	Solid	300.0	38597
890-3362-A-11-B MS	890-3362-A-11-B MS	Soluble	Solid	300.0	38597
890-3362-A-11-C MSD	890-3362-A-11-C MSD	Soluble	Solid	300.0	38597

Leach Batch: 38811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-1	SW-6A-0-4-110322	Soluble	Solid	DI Leach	
890-3387-2	SW-11-0-4-110322	Soluble	Solid	DI Leach	
890-3387-3	SW-10-0-4-110322	Soluble	Solid	DI Leach	
890-3387-4	B-43-4-110322	Soluble	Solid	DI Leach	
890-3387-5	B-44-4-110322	Soluble	Solid	DI Leach	
890-3387-6	B-45-4-110322	Soluble	Solid	DI Leach	
890-3387-7	B-46-4-110322	Soluble	Solid	DI Leach	
890-3387-8	B-47-4-110322	Soluble	Solid	DI Leach	
890-3387-9	B-48-4-110322	Soluble	Solid	DI Leach	
890-3387-10	B-49-4-110322	Soluble	Solid	DI Leach	
890-3387-11	B-50-4-110322	Soluble	Solid	DI Leach	
890-3387-12	B-51-4-110322	Soluble	Solid	DI Leach	
890-3387-13	B-52-4-110322	Soluble	Solid	DI Leach	
890-3387-14	B-53-4-110322	Soluble	Solid	DI Leach	
890-3387-15	B-54-4-110322	Soluble	Solid	DI Leach	
890-3387-16	B-55-4-110322	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

HPLC/IC (Continued)

Leach Batch: 38811 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-17	B-56-4-110322	Soluble	Solid	DI Leach	
890-3387-18	B-57-4-110322	Soluble	Solid	DI Leach	
MB 880-38811/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38811/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38811/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3387-1 MS	SW-6A-0-4-110322	Soluble	Solid	DI Leach	
890-3387-1 MSD	SW-6A-0-4-110322	Soluble	Solid	DI Leach	
890-3387-11 MS	B-50-4-110322	Soluble	Solid	DI Leach	
890-3387-11 MSD	B-50-4-110322	Soluble	Solid	DI Leach	

Analysis Batch: 38853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3387-1	SW-6A-0-4-110322	Soluble	Solid	300.0	38811
890-3387-2	SW-11-0-4-110322	Soluble	Solid	300.0	38811
890-3387-3	SW-10-0-4-110322	Soluble	Solid	300.0	38811
890-3387-4	B-43-4-110322	Soluble	Solid	300.0	38811
890-3387-5	B-44-4-110322	Soluble	Solid	300.0	38811
890-3387-6	B-45-4-110322	Soluble	Solid	300.0	38811
890-3387-7	B-46-4-110322	Soluble	Solid	300.0	38811
890-3387-8	B-47-4-110322	Soluble	Solid	300.0	38811
890-3387-9	B-48-4-110322	Soluble	Solid	300.0	38811
890-3387-10	B-49-4-110322	Soluble	Solid	300.0	38811
890-3387-11	B-50-4-110322	Soluble	Solid	300.0	38811
890-3387-12	B-51-4-110322	Soluble	Solid	300.0	38811
890-3387-13	B-52-4-110322	Soluble	Solid	300.0	38811
890-3387-14	B-53-4-110322	Soluble	Solid	300.0	38811
890-3387-15	B-54-4-110322	Soluble	Solid	300.0	38811
890-3387-16	B-55-4-110322	Soluble	Solid	300.0	38811
890-3387-17	B-56-4-110322	Soluble	Solid	300.0	38811
890-3387-18	B-57-4-110322	Soluble	Solid	300.0	38811
MB 880-38811/1-A	Method Blank	Soluble	Solid	300.0	38811
LCS 880-38811/2-A	Lab Control Sample	Soluble	Solid	300.0	38811
LCSD 880-38811/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38811
890-3387-1 MS	SW-6A-0-4-110322	Soluble	Solid	300.0	38811
890-3387-1 MSD	SW-6A-0-4-110322	Soluble	Solid	300.0	38811
890-3387-11 MS	B-50-4-110322	Soluble	Solid	300.0	38811
890-3387-11 MSD	B-50-4-110322	Soluble	Solid	300.0	38811

Leach Batch: 39010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3367-1	B-28-4-110222	Soluble	Solid	DI Leach	
890-3367-2	B-35-4-110222	Soluble	Solid	DI Leach	
890-3367-3	B-36-4-110222	Soluble	Solid	DI Leach	
890-3367-4	B-37-4-110222	Soluble	Solid	DI Leach	
890-3367-5	B-38-4-110222	Soluble	Solid	DI Leach	
890-3367-6	B-39-4-110222	Soluble	Solid	DI Leach	
890-3367-7	B-40-4-110222	Soluble	Solid	DI Leach	
890-3367-8	B-41-4-110222	Soluble	Solid	DI Leach	
890-3367-9	B-42-4-110222	Soluble	Solid	DI Leach	
MB 880-39010/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39010/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

HPLC/IC (Continued)

Leach Batch: 39010 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-39010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3367-1 MS	B-28-4-110222	Soluble	Solid	DI Leach	
890-3367-1 MSD	B-28-4-110222	Soluble	Solid	DI Leach	

Analysis Batch: 39047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3362-11	SW-8-0-4-110122	Soluble	Solid	300.0	38597
890-3367-1	B-28-4-110222	Soluble	Solid	300.0	39010
890-3367-2	B-35-4-110222	Soluble	Solid	300.0	39010
890-3367-3	B-36-4-110222	Soluble	Solid	300.0	39010
890-3367-4	B-37-4-110222	Soluble	Solid	300.0	39010
890-3367-5	B-38-4-110222	Soluble	Solid	300.0	39010
890-3367-6	B-39-4-110222	Soluble	Solid	300.0	39010
890-3367-7	B-40-4-110222	Soluble	Solid	300.0	39010
890-3367-8	B-41-4-110222	Soluble	Solid	300.0	39010
890-3367-9	B-42-4-110222	Soluble	Solid	300.0	39010
MB 880-39010/1-A	Method Blank	Soluble	Solid	300.0	39010
LCS 880-39010/2-A	Lab Control Sample	Soluble	Solid	300.0	39010
LCSD 880-39010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39010
890-3367-1 MS	B-28-4-110222	Soluble	Solid	300.0	39010
890-3367-1 MSD	B-28-4-110222	Soluble	Solid	300.0	39010

Leach Batch: 39064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-21	B-64-4'-110722	Soluble	Solid	DI Leach	
MB 880-39064/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39064/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39064/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 39085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-21	B-64-4'-110722	Soluble	Solid	300.0	39064
MB 880-39064/1-A	Method Blank	Soluble	Solid	300.0	39064
LCS 880-39064/2-A	Lab Control Sample	Soluble	Solid	300.0	39064
LCSD 880-39064/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39064

Leach Batch: 39102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-1	SW-8A-0'-4'-110722	Soluble	Solid	DI Leach	
890-3417-2	B-65-4'-110822	Soluble	Solid	DI Leach	
890-3417-3	B-66-4'-110822	Soluble	Solid	DI Leach	
890-3417-4	B-67-4'-110822	Soluble	Solid	DI Leach	
890-3417-5	B-68-4'-110822	Soluble	Solid	DI Leach	
890-3417-6	B-69-4'-110822	Soluble	Solid	DI Leach	
890-3417-7	B-70-4'-110822	Soluble	Solid	DI Leach	
890-3417-8	B-71-4'-110822	Soluble	Solid	DI Leach	
890-3417-9	B-72-4'-110822	Soluble	Solid	DI Leach	
890-3417-10	B-73-4'-110822	Soluble	Solid	DI Leach	
890-3417-11	SW-12-0'-4'-110722	Soluble	Solid	DI Leach	
890-3417-12	SW-13-0'-4'-110722	Soluble	Solid	DI Leach	
890-3417-13	SW-14-0'-4'-110722	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

HPLC/IC (Continued)

Leach Batch: 39102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-14	B-57-4'-110722	Soluble	Solid	DI Leach	
890-3417-15	B-58-4'-110822	Soluble	Solid	DI Leach	
890-3417-16	B-59-4'-110822	Soluble	Solid	DI Leach	
890-3417-17	B-60-4'-110722	Soluble	Solid	DI Leach	
890-3417-18	B-61-4'-110722	Soluble	Solid	DI Leach	
890-3417-19	B-62-4'-110722	Soluble	Solid	DI Leach	
890-3417-20	B-63-4'-110722	Soluble	Solid	DI Leach	
MB 880-39102/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39102/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39102/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3417-1 MS	SW-8A-0'-4'-110722	Soluble	Solid	DI Leach	
890-3417-1 MSD	SW-8A-0'-4'-110722	Soluble	Solid	DI Leach	
890-3417-11 MS	SW-12-0'-4'-110722	Soluble	Solid	DI Leach	
890-3417-11 MSD	SW-12-0'-4'-110722	Soluble	Solid	DI Leach	

Analysis Batch: 39112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3417-1	SW-8A-0'-4'-110722	Soluble	Solid	300.0	39102
890-3417-2	B-65-4'-110822	Soluble	Solid	300.0	39102
890-3417-3	B-66-4'-110822	Soluble	Solid	300.0	39102
890-3417-4	B-67-4'-110822	Soluble	Solid	300.0	39102
890-3417-5	B-68-4'-110822	Soluble	Solid	300.0	39102
890-3417-6	B-69-4'-110822	Soluble	Solid	300.0	39102
890-3417-7	B-70-4'-110822	Soluble	Solid	300.0	39102
890-3417-8	B-71-4'-110822	Soluble	Solid	300.0	39102
890-3417-9	B-72-4'-110822	Soluble	Solid	300.0	39102
890-3417-10	B-73-4'-110822	Soluble	Solid	300.0	39102
890-3417-11	SW-12-0'-4'-110722	Soluble	Solid	300.0	39102
890-3417-12	SW-13-0'-4'-110722	Soluble	Solid	300.0	39102
890-3417-13	SW-14-0'-4'-110722	Soluble	Solid	300.0	39102
890-3417-14	B-57-4'-110722	Soluble	Solid	300.0	39102
890-3417-15	B-58-4'-110822	Soluble	Solid	300.0	39102
890-3417-16	B-59-4'-110822	Soluble	Solid	300.0	39102
890-3417-17	B-60-4'-110722	Soluble	Solid	300.0	39102
890-3417-18	B-61-4'-110722	Soluble	Solid	300.0	39102
890-3417-19	B-62-4'-110722	Soluble	Solid	300.0	39102
890-3417-20	B-63-4'-110722	Soluble	Solid	300.0	39102
MB 880-39102/1-A	Method Blank	Soluble	Solid	300.0	39102
LCS 880-39102/2-A	Lab Control Sample	Soluble	Solid	300.0	39102
LCSD 880-39102/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39102
890-3417-1 MS	SW-8A-0'-4'-110722	Soluble	Solid	300.0	39102
890-3417-1 MSD	SW-8A-0'-4'-110722	Soluble	Solid	300.0	39102
890-3417-11 MS	SW-12-0'-4'-110722	Soluble	Solid	300.0	39102
890-3417-11 MSD	SW-12-0'-4'-110722	Soluble	Solid	300.0	39102

Leach Batch: 39732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3462-1	SW-10A-0-4-111422	Soluble	Solid	DI Leach	
890-3462-2	B-65A-5-111422	Soluble	Solid	DI Leach	
890-3462-3	B-66A-5-111422	Soluble	Solid	DI Leach	
890-3462-4	B-67A-5-111422	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

HPLC/IC (Continued)

Leach Batch: 39732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3462-5	B-68A-5-111422	Soluble	Solid	DI Leach	
MB 880-39732/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39732/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39732/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3462-1 MS	SW-10A-0-4-111422	Soluble	Solid	DI Leach	
890-3462-1 MSD	SW-10A-0-4-111422	Soluble	Solid	DI Leach	

Analysis Batch: 39774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3462-1	SW-10A-0-4-111422	Soluble	Solid	300.0	39732
890-3462-2	B-65A-5-111422	Soluble	Solid	300.0	39732
890-3462-3	B-66A-5-111422	Soluble	Solid	300.0	39732
890-3462-4	B-67A-5-111422	Soluble	Solid	300.0	39732
890-3462-5	B-68A-5-111422	Soluble	Solid	300.0	39732
MB 880-39732/1-A	Method Blank	Soluble	Solid	300.0	39732
LCS 880-39732/2-A	Lab Control Sample	Soluble	Solid	300.0	39732
LCSD 880-39732/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39732
890-3462-1 MS	SW-10A-0-4-111422	Soluble	Solid	300.0	39732
890-3462-1 MSD	SW-10A-0-4-111422	Soluble	Solid	300.0	39732

General Chemistry

Analysis Batch: 38004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20838-1	B-1-4'-102522	Total/NA	Solid	D2216	
880-20838-2	B-2-4'-102522	Total/NA	Solid	D2216	
MB 880-38004/1	Method Blank	Total/NA	Solid	D2216	

Analysis Batch: 38566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21034-1	SW-4-0'-4'-103122	Total/NA	Solid	D2216	
880-21034-2	B-3-4'-103122	Total/NA	Solid	D2216	
880-21034-3	B-4-4'-103122	Total/NA	Solid	D2216	
880-21034-4	B-5-4'-103122	Total/NA	Solid	D2216	
880-21034-5	B-6-4'-103122	Total/NA	Solid	D2216	
880-21034-6	B-7-4'-103122	Total/NA	Solid	D2216	
880-21034-7	B-8-4'-103122	Total/NA	Solid	D2216	
880-21034-8	B-9-4'-103122	Total/NA	Solid	D2216	
880-21034-9	B-10-4'-103122	Total/NA	Solid	D2216	
880-21034-10	B-11-4'-103122	Total/NA	Solid	D2216	
880-21034-11	B-12-4'-103122	Total/NA	Solid	D2216	
880-21034-12	B-13-4'-103122	Total/NA	Solid	D2216	
880-21034-13	B-14-4'-103122	Total/NA	Solid	D2216	
880-21034-14	B-15-4'-103122	Total/NA	Solid	D2216	
880-21034-15	B-16-4'-103122	Total/NA	Solid	D2216	
MB 880-38566/1	Method Blank	Total/NA	Solid	D2216	
880-21034-6 DU	B-7-4'-103122	Total/NA	Solid	D2216	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-1-4'-102522
Lab Sample ID: 880-20838-1
Date Collected: 10/25/22 14:00
Matrix: Solid
Date Received: 10/26/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			38410	11/01/22 14:34	AJ	EET MID
Total/NA	Analysis	TX 1005		1			38208	10/30/22 22:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38009	10/27/22 11:25	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38046	10/28/22 00:15	CH	EET MID
Total/NA	Analysis	D2216		1			38004	10/27/22 11:12	SMC	EET MID

Client Sample ID: B-1-4'-102522
Lab Sample ID: 880-20838-1
Date Collected: 10/25/22 14:00
Matrix: Solid
Date Received: 10/26/22 16:41
Percent Solids: 88.4

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	38264	10/31/22 11:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38214	11/01/22 10:19	MNR	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	38083	10/28/22 10:20	DM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	38141	10/29/22 17:49	SM	EET MID

Client Sample ID: B-2-4'-102522
Lab Sample ID: 880-20838-2
Date Collected: 10/25/22 14:05
Matrix: Solid
Date Received: 10/26/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			38410	11/01/22 14:34	AJ	EET MID
Total/NA	Analysis	TX 1005		1			38208	10/30/22 22:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38009	10/27/22 11:25	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38046	10/28/22 00:22	CH	EET MID
Total/NA	Analysis	D2216		1			38004	10/27/22 11:12	SMC	EET MID

Client Sample ID: B-2-4'-102522
Lab Sample ID: 880-20838-2
Date Collected: 10/25/22 14:05
Matrix: Solid
Date Received: 10/26/22 16:41
Percent Solids: 92.0

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	38264	10/31/22 11:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38214	11/01/22 10:45	MNR	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	38083	10/28/22 10:20	DM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	38141	10/29/22 18:10	SM	EET MID

Client Sample ID: SW-4-0'-4'-103122
Lab Sample ID: 880-21034-1
Date Collected: 10/31/22 11:40
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: SW-4-0'-4'-103122
Lab Sample ID: 880-21034-1
Date Collected: 10/31/22 11:40
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.1

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 02:42	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 22:19	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		1			38582	11/03/22 09:04	CH	EET MID

Client Sample ID: B-3-4'-103122
Lab Sample ID: 880-21034-2
Date Collected: 10/31/22 11:45
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-3-4'-103122
Lab Sample ID: 880-21034-2
Date Collected: 10/31/22 11:45
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 90.7

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 03:03	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 23:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		1			38582	11/03/22 09:19	CH	EET MID

Client Sample ID: B-4-4'-103122
Lab Sample ID: 880-21034-3
Date Collected: 10/31/22 11:50
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-4-4'-103122
Lab Sample ID: 880-21034-3
Date Collected: 10/31/22 11:50
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 91.7

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 03:23	MNR	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-4-4'-103122
Lab Sample ID: 880-21034-3
Date Collected: 10/31/22 11:50
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 23:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 09:24	CH	EET MID

Client Sample ID: B-5-4'-103122
Lab Sample ID: 880-21034-4
Date Collected: 10/31/22 12:00
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-5-4'-103122
Lab Sample ID: 880-21034-4
Date Collected: 10/31/22 12:00
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 90.1

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 03:43	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 00:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 09:29	CH	EET MID

Client Sample ID: B-6-4'-103122
Lab Sample ID: 880-21034-5
Date Collected: 10/31/22 12:05
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-6-4'-103122
Lab Sample ID: 880-21034-5
Date Collected: 10/31/22 12:05
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 89.8

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 04:04	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 00:32	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-6-4'-103122
Lab Sample ID: 880-21034-5
Date Collected: 10/31/22 12:05
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 89.8

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	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 09:34	CH	EET MID

Client Sample ID: B-7-4'-103122
Lab Sample ID: 880-21034-6
Date Collected: 10/31/22 12:10
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-7-4'-103122
Lab Sample ID: 880-21034-6
Date Collected: 10/31/22 12:10
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 90.0

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 04:24	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 00:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 09:49	CH	EET MID

Client Sample ID: B-8-4'-103122
Lab Sample ID: 880-21034-7
Date Collected: 10/31/22 12:15
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-8-4'-103122
Lab Sample ID: 880-21034-7
Date Collected: 10/31/22 12:15
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 91.6

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 04:45	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 01:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 09:54	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-9-4'-103122
Lab Sample ID: 880-21034-8
Date Collected: 10/31/22 12:20
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-9-4'-103122
Lab Sample ID: 880-21034-8
Date Collected: 10/31/22 12:20
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.2

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 05:05	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 01:38	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 09:59	CH	EET MID

Client Sample ID: B-10-4'-103122
Lab Sample ID: 880-21034-9
Date Collected: 10/31/22 12:30
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-10-4'-103122
Lab Sample ID: 880-21034-9
Date Collected: 10/31/22 12:30
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 93.9

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 05:25	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 01:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 10:04	CH	EET MID

Client Sample ID: B-11-4'-103122
Lab Sample ID: 880-21034-10
Date Collected: 10/31/22 12:40
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-11-4'-103122
Lab Sample ID: 880-21034-10
Date Collected: 10/31/22 12:40
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.7

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 05:46	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 02:21	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 10:09	CH	EET MID

Client Sample ID: B-12-4'-103122
Lab Sample ID: 880-21034-11
Date Collected: 10/31/22 12:45
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-12-4'-103122
Lab Sample ID: 880-21034-11
Date Collected: 10/31/22 12:45
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.2

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 07:36	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 03:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 10:14	CH	EET MID

Client Sample ID: B-13-4'-103122
Lab Sample ID: 880-21034-12
Date Collected: 10/31/22 12:50
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-13-4'-103122
Lab Sample ID: 880-21034-12
Date Collected: 10/31/22 12:50
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 91.8

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 07:56	MNR	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-13-4'-103122
Lab Sample ID: 880-21034-12
Date Collected: 10/31/22 12:50
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 03:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 10:29	CH	EET MID

Client Sample ID: B-14-4'-103122
Lab Sample ID: 880-21034-13
Date Collected: 10/31/22 12:55
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-14-4'-103122
Lab Sample ID: 880-21034-13
Date Collected: 10/31/22 12:55
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.7

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 08:16	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 03:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 10:34	CH	EET MID

Client Sample ID: B-15-4'-103122
Lab Sample ID: 880-21034-14
Date Collected: 10/31/22 13:00
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-15-4'-103122
Lab Sample ID: 880-21034-14
Date Collected: 10/31/22 13:00
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 89.7

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 08:37	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 04:10	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-15-4'-103122
Lab Sample ID: 880-21034-14
Date Collected: 10/31/22 13:00
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 89.7

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	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 10:49	CH	EET MID

Client Sample ID: B-16-4'-103122
Lab Sample ID: 880-21034-15
Date Collected: 10/31/22 13:05
Matrix: Solid
Date Received: 11/02/22 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			39006	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38892	11/07/22 15:11	SM	EET MID
Total/NA	Analysis	D2216		1			38566	11/02/22 19:01	CH	EET MID

Client Sample ID: B-16-4'-103122
Lab Sample ID: 880-21034-15
Date Collected: 10/31/22 13:05
Matrix: Solid
Date Received: 11/02/22 11:46
Percent Solids: 92.3

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	38531	11/02/22 15:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/08/22 08:57	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38742	11/04/22 14:07	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/05/22 04:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	38512	11/02/22 14:13	CH	EET MID
Soluble	Analysis	300.0		5			38582	11/03/22 10:53	CH	EET MID

Client Sample ID: SW-3-0'-4'-102522
Lab Sample ID: 890-3298-1
Date Collected: 10/25/22 14:50
Matrix: Solid
Date Received: 10/26/22 16:46

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	38264	10/31/22 11:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38214	11/01/22 07:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38341	11/01/22 09:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38266	10/31/22 12:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38114	10/28/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38169	10/30/22 22:07	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	38086	10/28/22 10:55	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38100	10/28/22 13:47	SMC	EET MID

Client Sample ID: TP-6-0'-4'-102622
Lab Sample ID: 890-3298-2
Date Collected: 10/26/22 13:30
Matrix: Solid
Date Received: 10/26/22 16:46

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	38264	10/31/22 11:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38214	11/01/22 08:33	MNR	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: TP-6-0'-4'-102622

Lab Sample ID: 890-3298-2
Matrix: Solid
Date Collected: 10/26/22 13:30
Date Received: 10/26/22 16:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			38341	11/01/22 09:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38266	10/31/22 12:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38114	10/28/22 15:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38169	10/30/22 23:10	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	38086	10/28/22 10:55	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38100	10/28/22 14:07	SMC	EET MID

Client Sample ID: SW-5-0'-4-102722

Lab Sample ID: 890-3318-1
Matrix: Solid
Date Collected: 10/27/22 15:30
Date Received: 10/28/22 11:30

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38461	11/02/22 10:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38389	11/01/22 13:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38261	10/31/22 10:25	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38217	10/31/22 16:00	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38248	10/31/22 10:08	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38295	10/31/22 13:29	CH	EET MID

Client Sample ID: SW-6-0'-4'-102722

Lab Sample ID: 890-3318-2
Matrix: Solid
Date Collected: 10/27/22 15:35
Date Received: 10/28/22 11:30

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	38292	10/31/22 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38317	11/01/22 19:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38461	11/02/22 10:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38389	11/01/22 13:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38261	10/31/22 10:25	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38217	10/31/22 16:22	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	38248	10/31/22 10:08	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38295	10/31/22 13:33	CH	EET MID

Client Sample ID: SW-1-0-4-110122

Lab Sample ID: 890-3362-1
Matrix: Solid
Date Collected: 11/01/22 11:10
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 12:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: SW-1-0-4-110122
Lab Sample ID: 890-3362-1
Date Collected: 11/01/22 11:10
Matrix: Solid
Date Received: 11/02/22 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 12:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38646	11/03/22 15:33	CH	EET MID

Client Sample ID: SW-2-0-4-110122
Lab Sample ID: 890-3362-2
Date Collected: 11/01/22 11:15
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 12:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 13:45	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38646	11/03/22 15:55	CH	EET MID

Client Sample ID: SW-9-0-4-110122
Lab Sample ID: 890-3362-3
Date Collected: 11/01/22 11:20
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 12:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 14:07	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 16:02	CH	EET MID

Client Sample ID: B-29-4-110122
Lab Sample ID: 890-3362-4
Date Collected: 11/01/22 11:25
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 14:28	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-29-4-110122
Lab Sample ID: 890-3362-4
Date Collected: 11/01/22 11:25
Matrix: Solid
Date Received: 11/02/22 12:09

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	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38646	11/03/22 16:10	CH	EET MID

Client Sample ID: B-30-4-110122
Lab Sample ID: 890-3362-5
Date Collected: 11/01/22 11:30
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 14:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38646	11/03/22 16:17	CH	EET MID

Client Sample ID: B-31-4-110122
Lab Sample ID: 890-3362-6
Date Collected: 11/01/22 11:35
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 15:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 16:38	CH	EET MID

Client Sample ID: B-32-4-11012
Lab Sample ID: 890-3362-7
Date Collected: 11/01/22 11:40
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 15:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 16:46	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-33-4-110122
Lab Sample ID: 890-3362-8
Date Collected: 11/01/22 11:45
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 15:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 15:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 16:53	CH	EET MID

Client Sample ID: B-34-4-110122
Lab Sample ID: 890-3362-9
Date Collected: 11/01/22 11:50
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 15:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 16:15	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 17:00	CH	EET MID

Client Sample ID: SW-7-0-4-110122
Lab Sample ID: 890-3362-10
Date Collected: 11/01/22 13:20
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 15:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/04/22 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 16:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38646	11/03/22 17:07	CH	EET MID

Client Sample ID: SW-8-0-4-110122
Lab Sample ID: 890-3362-11
Date Collected: 11/01/22 13:25
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: SW-8-0-4-110122
Lab Sample ID: 890-3362-11
Date Collected: 11/01/22 13:25
Matrix: Solid
Date Received: 11/02/22 12:09

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			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 17:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		1			39047	11/09/22 13:48	CH	EET MID

Client Sample ID: B-17-4-110122
Lab Sample ID: 890-3362-12
Date Collected: 11/01/22 13:30
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 18:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 17:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 17:36	CH	EET MID

Client Sample ID: B-18-4-110122
Lab Sample ID: 890-3362-13
Date Collected: 11/01/22 13:35
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 18:02	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 17:44	CH	EET MID

Client Sample ID: B-19-4-110122
Lab Sample ID: 890-3362-14
Date Collected: 11/01/22 13:40
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 18:23	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-19-4-110122
Date Collected: 11/01/22 13:40
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-14
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	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 18:05	CH	EET MID

Client Sample ID: B-20-4-110122
Date Collected: 11/01/22 13:45
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 18:44	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38646	11/03/22 18:12	CH	EET MID

Client Sample ID: B-21-4-110122
Date Collected: 11/01/22 13:50
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-16
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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 19:05	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 18:20	CH	EET MID

Client Sample ID: B-22-4-110122
Date Collected: 11/01/22 13:50
Date Received: 11/02/22 12:09

Lab Sample ID: 890-3362-17
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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 19:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 18:27	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-23-4-110211
Lab Sample ID: 890-3362-18
Date Collected: 11/01/22 14:00
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 20:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 19:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 18:34	CH	EET MID

Client Sample ID: B-24-4-110122
Lab Sample ID: 890-3362-19
Date Collected: 11/01/22 14:05
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 21:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 20:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 18:41	CH	EET MID

Client Sample ID: B-25-4-110122
Lab Sample ID: 890-3362-20
Date Collected: 11/01/22 14:10
Matrix: Solid
Date Received: 11/02/22 12:09

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	38630	11/03/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38697	11/04/22 21:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38652	11/03/22 15:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38692	11/04/22 20:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38597	11/03/22 10:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38646	11/03/22 18:49	CH	EET MID

Client Sample ID: B-26-4-110222
Lab Sample ID: 890-3362-21
Date Collected: 11/02/22 09:10
Matrix: Solid
Date Received: 11/02/22 12:09

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	38647	11/03/22 14:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38705	11/04/22 21:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 15:29	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-26-4-110222
Lab Sample ID: 890-3362-21
Date Collected: 11/02/22 09:10
Matrix: Solid
Date Received: 11/02/22 12:09

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			38870	11/07/22 11:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38644	11/03/22 14:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38690	11/05/22 00:32	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	38606	11/03/22 10:19	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38645	11/03/22 14:47	CH	EET MID

Client Sample ID: b-27-4-110222
Lab Sample ID: 890-3362-22
Date Collected: 11/02/22 09:15
Matrix: Solid
Date Received: 11/02/22 12:09

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	38647	11/03/22 14:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38705	11/04/22 21:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38753	11/07/22 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			38870	11/07/22 11:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38644	11/03/22 14:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38690	11/05/22 00:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38606	11/03/22 10:19	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38645	11/03/22 14:51	CH	EET MID

Client Sample ID: B-28-4-110222
Lab Sample ID: 890-3367-1
Date Collected: 11/02/22 13:05
Matrix: Solid
Date Received: 11/02/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	38880	11/07/22 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38952	11/08/22 16:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39087	11/09/22 11:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38874	11/07/22 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38740	11/04/22 13:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38768	11/05/22 16:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39010	11/08/22 13:47	KS	EET MID
Soluble	Analysis	300.0		1			39047	11/08/22 15:55	CH	EET MID

Client Sample ID: B-35-4-110222
Lab Sample ID: 890-3367-2
Date Collected: 11/02/22 00:00
Matrix: Solid
Date Received: 11/02/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	38880	11/07/22 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38952	11/08/22 17:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39087	11/09/22 11:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38874	11/07/22 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38740	11/04/22 13:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38768	11/05/22 17:04	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-35-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-2
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			5.01 g	50 mL	39010	11/08/22 13:47	KS	EET MID
Soluble	Analysis	300.0		1			39047	11/08/22 16:10	CH	EET MID

Client Sample ID: B-36-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	38880	11/07/22 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38952	11/08/22 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39087	11/09/22 11:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38874	11/07/22 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38740	11/04/22 13:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38768	11/05/22 17:25	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39010	11/08/22 13:47	KS	EET MID
Soluble	Analysis	300.0		1			39047	11/08/22 16:15	CH	EET MID

Client Sample ID: B-37-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	38880	11/07/22 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38952	11/08/22 17:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39087	11/09/22 11:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38874	11/07/22 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38740	11/04/22 13:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38768	11/05/22 17:46	SM	EET MID
Soluble	Leach	DI Leach			499 g	50 mL	39010	11/08/22 13:47	KS	EET MID
Soluble	Analysis	300.0		1			39047	11/08/22 16:20	CH	EET MID

Client Sample ID: B-38-4-110222
Date Collected: 11/02/22 00:00
Date Received: 11/02/22 16:52

Lab Sample ID: 890-3367-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38880	11/07/22 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38952	11/08/22 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39087	11/09/22 11:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38874	11/07/22 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38740	11/04/22 13:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38768	11/05/22 18:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39010	11/08/22 13:47	KS	EET MID
Soluble	Analysis	300.0		1			39047	11/08/22 16:25	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-39-4-110222
Lab Sample ID: 890-3367-6
Date Collected: 11/02/22 00:00
Matrix: Solid
Date Received: 11/02/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	38880	11/07/22 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38952	11/08/22 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39087	11/09/22 11:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38874	11/07/22 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38740	11/04/22 13:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38768	11/05/22 18:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39010	11/08/22 13:47	KS	EET MID
Soluble	Analysis	300.0		1			39047	11/08/22 16:40	CH	EET MID

Client Sample ID: B-40-4-110222
Lab Sample ID: 890-3367-7
Date Collected: 11/02/22 00:00
Matrix: Solid
Date Received: 11/02/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38880	11/07/22 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38952	11/08/22 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39087	11/09/22 11:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38874	11/07/22 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38740	11/04/22 13:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38768	11/05/22 18:49	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39010	11/08/22 13:47	KS	EET MID
Soluble	Analysis	300.0		1			39047	11/08/22 16:45	CH	EET MID

Client Sample ID: B-41-4-110222
Lab Sample ID: 890-3367-8
Date Collected: 11/02/22 00:00
Matrix: Solid
Date Received: 11/02/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	38880	11/07/22 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38952	11/08/22 19:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39087	11/09/22 11:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38874	11/07/22 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38740	11/04/22 13:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38768	11/05/22 19:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39010	11/08/22 13:47	KS	EET MID
Soluble	Analysis	300.0		1			39047	11/08/22 16:50	CH	EET MID

Client Sample ID: B-42-4-110222
Lab Sample ID: 890-3367-9
Date Collected: 11/02/22 00:00
Matrix: Solid
Date Received: 11/02/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	38880	11/07/22 13:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38952	11/08/22 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39087	11/09/22 11:15	AJ	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-42-4-110222
Lab Sample ID: 890-3367-9
Date Collected: 11/02/22 00:00
Matrix: Solid
Date Received: 11/02/22 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			38874	11/07/22 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38740	11/04/22 13:31	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38768	11/05/22 19:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39010	11/08/22 13:47	KS	EET MID
Soluble	Analysis	300.0		1			39047	11/08/22 16:55	CH	EET MID

Client Sample ID: SW-6A-0-4-110322
Lab Sample ID: 890-3387-1
Date Collected: 11/03/22 10:00
Matrix: Solid
Date Received: 11/04/22 12:28

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	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/12/22 22:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/10/22 21:46	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		1			38853	11/07/22 11:14	CH	EET MID

Client Sample ID: SW-11-0-4-110322
Lab Sample ID: 890-3387-2
Date Collected: 11/03/22 10:05
Matrix: Solid
Date Received: 11/04/22 12:28

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	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/12/22 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/10/22 22:49	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		1			38853	11/07/22 11:19	CH	EET MID

Client Sample ID: SW-10-0-4-110322
Lab Sample ID: 890-3387-3
Date Collected: 11/03/22 14:30
Matrix: Solid
Date Received: 11/04/22 12:28

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	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/12/22 23:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/10/22 23:09	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: SW-10-0-4-110322
Lab Sample ID: 890-3387-3
Date Collected: 11/03/22 14:30
Matrix: Solid
Date Received: 11/04/22 12:28

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	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		1			38853	11/07/22 11:24	CH	EET MID

Client Sample ID: B-43-4-110322
Lab Sample ID: 890-3387-4
Date Collected: 11/03/22 14:35
Matrix: Solid
Date Received: 11/04/22 12:28

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	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/12/22 23:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/10/22 23:30	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		5			38853	11/07/22 11:29	CH	EET MID

Client Sample ID: B-44-4-110322
Lab Sample ID: 890-3387-5
Date Collected: 11/03/22 14:40
Matrix: Solid
Date Received: 11/04/22 12:28

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	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 00:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/10/22 23:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		20			38853	11/07/22 11:34	CH	EET MID

Client Sample ID: B-45-4-110322
Lab Sample ID: 890-3387-6
Date Collected: 11/03/22 14:45
Matrix: Solid
Date Received: 11/04/22 12:28

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	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 00:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 00:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		5			38853	11/07/22 11:49	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-46-4-110322
Date Collected: 11/03/22 14:50
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 00:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		10			38853	11/07/22 11:54	CH	EET MID

Client Sample ID: B-47-4-110322
Date Collected: 11/03/22 14:55
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 01:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 00:53	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		10			38853	11/07/22 11:59	CH	EET MID

Client Sample ID: B-48-4-110322
Date Collected: 11/03/22 15:00
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-9
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			5.04 g	5 mL	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 01:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 01:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		10			38853	11/07/22 12:03	CH	EET MID

Client Sample ID: B-49-4-110322
Date Collected: 11/03/22 15:05
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-10
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			4.97 g	5 mL	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 02:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-49-4-110322
Date Collected: 11/03/22 15:05
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 01:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		10			38853	11/07/22 12:08	CH	EET MID

Client Sample ID: B-50-4-110322
Date Collected: 11/03/22 15:10
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-11
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			4.95 g	5 mL	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 04:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 02:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		5			38853	11/07/22 12:13	CH	EET MID

Client Sample ID: B-51-4-110322
Date Collected: 11/03/22 15:15
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 04:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 02:37	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		1			38853	11/07/22 15:32	CH	EET MID

Client Sample ID: B-52-4-110322
Date Collected: 11/03/22 15:20
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-13
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	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 05:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 02:58	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Client Sample ID: B-52-4-110322
Date Collected: 11/03/22 15:20
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-13
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	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		10			38853	11/07/22 12:33	CH	EET MID

Client Sample ID: B-53-4-110322
Date Collected: 11/03/22 15:25
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 05:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 03:19	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		10			38853	11/07/22 12:48	CH	EET MID

Client Sample ID: B-54-4-110322
Date Collected: 11/03/22 15:30
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 05:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 03:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		1			38853	11/07/22 12:53	CH	EET MID

Client Sample ID: B-55-4-110322
Date Collected: 11/03/22 15:35
Date Received: 11/04/22 12:28

Lab Sample ID: 890-3387-16
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			4.97 g	5 mL	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 06:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 04:00	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		5			38853	11/07/22 12:58	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-56-4-110322
Lab Sample ID: 890-3387-17
Date Collected: 11/03/22 15:40
Matrix: Solid
Date Received: 11/04/22 12:28

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	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 06:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 04:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		5			38853	11/07/22 13:03	CH	EET MID

Client Sample ID: B-57-4-110322
Lab Sample ID: 890-3387-18
Date Collected: 11/03/22 15:45
Matrix: Solid
Date Received: 11/04/22 12:28

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	39127	11/09/22 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39343	11/13/22 07:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39484	11/14/22 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39322	11/11/22 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38923	11/07/22 16:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39159	11/11/22 04:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38811	11/07/22 08:12	CH	EET MID
Soluble	Analysis	300.0		10			38853	11/07/22 13:08	CH	EET MID

Client Sample ID: SW-8A-0'-4'-110722
Lab Sample ID: 890-3417-1
Date Collected: 11/07/22 16:00
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/12/22 22:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 11:47	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	39112	11/09/22 13:45	CH	EET MID

Client Sample ID: B-65-4'-110822
Lab Sample ID: 890-3417-2
Date Collected: 11/08/22 09:35
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/12/22 22:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-65-4'-110822
Lab Sample ID: 890-3417-2
Date Collected: 11/08/22 09:35
Matrix: Solid
Date Received: 11/08/22 12:10

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			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 12:53	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	39112	11/09/22 14:07	CH	EET MID

Client Sample ID: B-66-4'-110822
Lab Sample ID: 890-3417-3
Date Collected: 11/08/22 09:40
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/12/22 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 13:16	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	39112	11/09/22 14:14	CH	EET MID

Client Sample ID: B-67-4'-110822
Lab Sample ID: 890-3417-4
Date Collected: 11/08/22 09:45
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/12/22 23:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 13:38	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	39112	11/09/22 14:22	CH	EET MID

Client Sample ID: B-68-4'-110822
Lab Sample ID: 890-3417-5
Date Collected: 11/08/22 09:50
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/12/22 23:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 14:00	AJ	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-68-4'-110822
Lab Sample ID: 890-3417-5
Date Collected: 11/08/22 09:50
Matrix: Solid
Date Received: 11/08/22 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	39112	11/09/22 14:29	CH	EET MID

Client Sample ID: B-69-4'-110822
Lab Sample ID: 890-3417-6
Date Collected: 11/08/22 09:55
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/12/22 23:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 14:22	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	39112	11/09/22 14:50	CH	EET MID

Client Sample ID: B-70-4'-110822
Lab Sample ID: 890-3417-7
Date Collected: 11/08/22 10:00
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 00:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 14:44	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	39112	11/09/22 14:58	CH	EET MID

Client Sample ID: B-71-4'-110822
Lab Sample ID: 890-3417-8
Date Collected: 11/08/22 10:05
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 00:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 15:06	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	39112	11/09/22 15:05	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-72-4'-110822
Lab Sample ID: 890-3417-9
Date Collected: 11/08/22 10:10
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 00:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 15:28	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	39112	11/09/22 15:12	CH	EET MID

Client Sample ID: B-73-4'-110822
Lab Sample ID: 890-3417-10
Date Collected: 11/08/22 10:15
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 15:50	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	39112	11/09/22 15:19	CH	EET MID

Client Sample ID: SW-12-0'-4'-110722
Lab Sample ID: 890-3417-11
Date Collected: 11/07/22 11:50
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 02:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 16:34	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	39112	11/09/22 15:26	CH	EET MID

Client Sample ID: SW-13-0'-4'-110722
Lab Sample ID: 890-3417-12
Date Collected: 11/07/22 11:55
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 03:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: SW-13-0'-4'-110722
Lab Sample ID: 890-3417-12
Date Collected: 11/07/22 11:55
Matrix: Solid
Date Received: 11/08/22 12:10

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			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 16:56	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	39112	11/09/22 15:48	CH	EET MID

Client Sample ID: SW-14-0'-4'-110722
Lab Sample ID: 890-3417-13
Date Collected: 11/07/22 12:00
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 03:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 17:19	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	39112	11/09/22 15:55	CH	EET MID

Client Sample ID: B-57-4'-110722
Lab Sample ID: 890-3417-14
Date Collected: 11/07/22 12:05
Matrix: Solid
Date Received: 11/08/22 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 03:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 17:41	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	39112	11/09/22 16:17	CH	EET MID

Client Sample ID: B-58-4'-110822
Lab Sample ID: 890-3417-15
Date Collected: 11/07/22 12:10
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 04:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 18:03	AJ	EET MID

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-58-4'-110822
Lab Sample ID: 890-3417-15
Date Collected: 11/07/22 12:10
Matrix: Solid
Date Received: 11/08/22 12:10

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	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	39112	11/09/22 16:25	CH	EET MID

Client Sample ID: B-59-4'-110822
Lab Sample ID: 890-3417-16
Date Collected: 11/07/22 12:15
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 04:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 18:25	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	39112	11/09/22 16:32	CH	EET MID

Client Sample ID: B-60-4'-110722
Lab Sample ID: 890-3417-17
Date Collected: 11/07/22 12:20
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 04:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 18:47	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	39112	11/09/22 16:39	CH	EET MID

Client Sample ID: B-61-4'-110722
Lab Sample ID: 890-3417-18
Date Collected: 11/07/22 12:25
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 05:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 19:09	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	39112	11/09/22 16:46	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-62-4'-110722
Lab Sample ID: 890-3417-19
Date Collected: 11/07/22 12:30
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 05:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 19:32	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	39112	11/09/22 16:54	CH	EET MID

Client Sample ID: B-63-4'-110722
Lab Sample ID: 890-3417-20
Date Collected: 11/07/22 12:35
Matrix: Solid
Date Received: 11/08/22 12:10

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	39144	11/09/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 05:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39174	11/10/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39375	11/13/22 19:53	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39102	11/09/22 11:42	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	39112	11/09/22 17:01	CH	EET MID

Client Sample ID: B-64-4'-110722
Lab Sample ID: 890-3417-21
Date Collected: 11/07/22 12:40
Matrix: Solid
Date Received: 11/08/22 12:10

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	39145	11/09/22 15:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39370	11/13/22 16:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39549	11/14/22 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			39409	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 19:03	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39064	11/09/22 10:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	39085	11/09/22 13:04	CH	EET MID

Client Sample ID: SW-10A-0-4-111422
Lab Sample ID: 890-3462-1
Date Collected: 11/14/22 09:00
Matrix: Solid
Date Received: 11/15/22 08:07

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	39859	11/17/22 16:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40173	11/23/22 04:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40336	11/23/22 13:56	SM	EET MID

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: SW-10A-0-4-111422
Lab Sample ID: 890-3462-1
Date Collected: 11/14/22 09:00
Matrix: Solid
Date Received: 11/15/22 08:07

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			40080	11/21/22 10:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39787	11/17/22 10:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39956	11/20/22 01:02	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 03:19	CH	EET MID

Client Sample ID: B-65A-5-111422
Lab Sample ID: 890-3462-2
Date Collected: 11/14/22 09:05
Matrix: Solid
Date Received: 11/15/22 08:07

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	39859	11/17/22 16:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40173	11/23/22 04:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40336	11/23/22 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			40080	11/21/22 10:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39787	11/17/22 10:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39956	11/20/22 01:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		5			39774	11/17/22 03:36	CH	EET MID

Client Sample ID: B-66A-5-111422
Lab Sample ID: 890-3462-3
Date Collected: 11/14/22 09:10
Matrix: Solid
Date Received: 11/15/22 08:07

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	39859	11/17/22 16:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40173	11/23/22 05:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40336	11/23/22 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			40080	11/21/22 10:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39787	11/17/22 10:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39956	11/20/22 02:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		10			39774	11/17/22 03:41	CH	EET MID

Client Sample ID: B-67A-5-111422
Lab Sample ID: 890-3462-4
Date Collected: 11/14/22 09:15
Matrix: Solid
Date Received: 11/15/22 08:07

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	39859	11/17/22 16:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40173	11/23/22 05:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40336	11/23/22 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			40080	11/21/22 10:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39787	11/17/22 10:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39956	11/20/22 02:28	SM	EET MID

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

Client Sample ID: B-67A-5-111422
Lab Sample ID: 890-3462-4
Date Collected: 11/14/22 09:15
Matrix: Solid
Date Received: 11/15/22 08:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		1			39774	11/17/22 03:47	CH	EET MID

Client Sample ID: B-68A-5-111422
Lab Sample ID: 890-3462-5
Date Collected: 11/14/22 09:20
Matrix: Solid
Date Received: 11/15/22 08:07

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	39859	11/17/22 16:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40173	11/23/22 05:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40336	11/23/22 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			40080	11/21/22 10:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39787	11/17/22 10:08	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39956	11/20/22 02:49	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39732	11/16/22 14:49	KS	EET MID
Soluble	Analysis	300.0		5			39774	11/17/22 03:52	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.
Job ID: 890-3462-2
Project/Site: Copperhead 30153056

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	T104704400-22-24	06-30-23

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: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

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
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID

Protocol References:

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: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-20838-1	B-1-4'-102522	Solid	10/25/22 14:00	10/26/22 16:41	
880-20838-2	B-2-4'-102522	Solid	10/25/22 14:05	10/26/22 16:41	
880-21034-1	SW-4-0'-4'-103122	Solid	10/31/22 11:40	11/02/22 11:46	
880-21034-2	B-3-4'-103122	Solid	10/31/22 11:45	11/02/22 11:46	
880-21034-3	B-4-4'-103122	Solid	10/31/22 11:50	11/02/22 11:46	
880-21034-4	B-5-4'-103122	Solid	10/31/22 12:00	11/02/22 11:46	
880-21034-5	B-6-4'-103122	Solid	10/31/22 12:05	11/02/22 11:46	
880-21034-6	B-7-4'-103122	Solid	10/31/22 12:10	11/02/22 11:46	
880-21034-7	B-8-4'-103122	Solid	10/31/22 12:15	11/02/22 11:46	
880-21034-8	B-9-4'-103122	Solid	10/31/22 12:20	11/02/22 11:46	
880-21034-9	B-10-4'-103122	Solid	10/31/22 12:30	11/02/22 11:46	
880-21034-10	B-11-4'-103122	Solid	10/31/22 12:40	11/02/22 11:46	
880-21034-11	B-12-4'-103122	Solid	10/31/22 12:45	11/02/22 11:46	
880-21034-12	B-13-4'-103122	Solid	10/31/22 12:50	11/02/22 11:46	
880-21034-13	B-14-4'-103122	Solid	10/31/22 12:55	11/02/22 11:46	
880-21034-14	B-15-4'-103122	Solid	10/31/22 13:00	11/02/22 11:46	
880-21034-15	B-16-4'-103122	Solid	10/31/22 13:05	11/02/22 11:46	
890-3298-1	SW-3-0'-4'-102522	Solid	10/25/22 14:50	10/26/22 16:46	
890-3298-2	TP-6-0'-4'-102622	Solid	10/26/22 13:30	10/26/22 16:46	
890-3318-1	SW-5-0'-4-102722	Solid	10/27/22 15:30	10/28/22 11:30	
890-3318-2	SW-6-0'-4'-102722	Solid	10/27/22 15:35	10/28/22 11:30	
890-3362-1	SW-1-0-4-110122	Solid	11/01/22 11:10	11/02/22 12:09	
890-3362-2	SW-2-0-4-110122	Solid	11/01/22 11:15	11/02/22 12:09	
890-3362-3	SW-9-0-4-110122	Solid	11/01/22 11:20	11/02/22 12:09	
890-3362-4	B-29-4-110122	Solid	11/01/22 11:25	11/02/22 12:09	
890-3362-5	B-30-4-110122	Solid	11/01/22 11:30	11/02/22 12:09	
890-3362-6	B-31-4-110122	Solid	11/01/22 11:35	11/02/22 12:09	
890-3362-7	B-32-4-11012	Solid	11/01/22 11:40	11/02/22 12:09	
890-3362-8	B-33-4-110122	Solid	11/01/22 11:45	11/02/22 12:09	
890-3362-9	B-34-4-110122	Solid	11/01/22 11:50	11/02/22 12:09	
890-3362-10	SW-7-0-4-110122	Solid	11/01/22 13:20	11/02/22 12:09	
890-3362-11	SW-8-0-4-110122	Solid	11/01/22 13:25	11/02/22 12:09	
890-3362-12	B-17-4-110122	Solid	11/01/22 13:30	11/02/22 12:09	
890-3362-13	B-18-4-110122	Solid	11/01/22 13:35	11/02/22 12:09	
890-3362-14	B-19-4-110122	Solid	11/01/22 13:40	11/02/22 12:09	
890-3362-15	B-20-4-110122	Solid	11/01/22 13:45	11/02/22 12:09	
890-3362-16	B-21-4-110122	Solid	11/01/22 13:50	11/02/22 12:09	
890-3362-17	B-22-4-110122	Solid	11/01/22 13:50	11/02/22 12:09	
890-3362-18	B-23-4-110211	Solid	11/01/22 14:00	11/02/22 12:09	
890-3362-19	B-24-4-110122	Solid	11/01/22 14:05	11/02/22 12:09	
890-3362-20	B-25-4-110122	Solid	11/01/22 14:10	11/02/22 12:09	
890-3362-21	B-26-4-110222	Solid	11/02/22 09:10	11/02/22 12:09	
890-3362-22	b-27-4-110222	Solid	11/02/22 09:15	11/02/22 12:09	
890-3367-1	B-28-4-110222	Solid	11/02/22 13:05	11/02/22 16:52	
890-3367-2	B-35-4-110222	Solid	11/02/22 00:00	11/02/22 16:52	
890-3367-3	B-36-4-110222	Solid	11/02/22 00:00	11/02/22 16:52	
890-3367-4	B-37-4-110222	Solid	11/02/22 00:00	11/02/22 16:52	
890-3367-5	B-38-4-110222	Solid	11/02/22 00:00	11/02/22 16:52	
890-3367-6	B-39-4-110222	Solid	11/02/22 00:00	11/02/22 16:52	
890-3367-7	B-40-4-110222	Solid	11/02/22 00:00	11/02/22 16:52	
890-3367-8	B-41-4-110222	Solid	11/02/22 00:00	11/02/22 16:52	
890-3367-9	B-42-4-110222	Solid	11/02/22 00:00	11/02/22 16:52	
890-3387-1	SW-6A-0-4-110322	Solid	11/03/22 10:00	11/04/22 12:28	0-4'
890-3387-2	SW-11-0-4-110322	Solid	11/03/22 10:05	11/04/22 12:28	0-4'

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Copperhead 30153056

Job ID: 890-3462-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3387-3	SW-10-0-4-110322	Solid	11/03/22 14:30	11/04/22 12:28	0-4'
890-3387-4	B-43-4-110322	Solid	11/03/22 14:35	11/04/22 12:28	4'
890-3387-5	B-44-4-110322	Solid	11/03/22 14:40	11/04/22 12:28	4'
890-3387-6	B-45-4-110322	Solid	11/03/22 14:45	11/04/22 12:28	4'
890-3387-7	B-46-4-110322	Solid	11/03/22 14:50	11/04/22 12:28	4'
890-3387-8	B-47-4-110322	Solid	11/03/22 14:55	11/04/22 12:28	4'
890-3387-9	B-48-4-110322	Solid	11/03/22 15:00	11/04/22 12:28	4'
890-3387-10	B-49-4-110322	Solid	11/03/22 15:05	11/04/22 12:28	4'
890-3387-11	B-50-4-110322	Solid	11/03/22 15:10	11/04/22 12:28	4'
890-3387-12	B-51-4-110322	Solid	11/03/22 15:15	11/04/22 12:28	4'
890-3387-13	B-52-4-110322	Solid	11/03/22 15:20	11/04/22 12:28	4'
890-3387-14	B-53-4-110322	Solid	11/03/22 15:25	11/04/22 12:28	4'
890-3387-15	B-54-4-110322	Solid	11/03/22 15:30	11/04/22 12:28	4'
890-3387-16	B-55-4-110322	Solid	11/03/22 15:35	11/04/22 12:28	4'
890-3387-17	B-56-4-110322	Solid	11/03/22 15:40	11/04/22 12:28	4'
890-3387-18	B-57-4-110322	Solid	11/03/22 15:45	11/04/22 12:28	4'
890-3417-1	SW-8A-0'-4'-110722	Solid	11/07/22 16:00	11/08/22 12:10	0-4'
890-3417-2	B-65-4'-110822	Solid	11/08/22 09:35	11/08/22 12:10	4'
890-3417-3	B-66-4'-110822	Solid	11/08/22 09:40	11/08/22 12:10	4'
890-3417-4	B-67-4'-110822	Solid	11/08/22 09:45	11/08/22 12:10	4'
890-3417-5	B-68-4'-110822	Solid	11/08/22 09:50	11/08/22 12:10	4'
890-3417-6	B-69-4'-110822	Solid	11/08/22 09:55	11/08/22 12:10	4'
890-3417-7	B-70-4'-110822	Solid	11/08/22 10:00	11/08/22 12:10	4'
890-3417-8	B-71-4'-110822	Solid	11/08/22 10:05	11/08/22 12:10	4'
890-3417-9	B-72-4'-110822	Solid	11/08/22 10:10	11/08/22 12:10	4'
890-3417-10	B-73-4'-110822	Solid	11/08/22 10:15	11/08/22 12:10	4'
890-3417-11	SW-12-0'-4'-110722	Solid	11/07/22 11:50	11/08/22 12:10	0-4'
890-3417-12	SW-13-0'-4'-110722	Solid	11/07/22 11:55	11/08/22 12:10	0-4'
890-3417-13	SW-14-0'-4'-110722	Solid	11/07/22 12:00	11/08/22 12:10	0-4'
890-3417-14	B-57-4'-110722	Solid	11/07/22 12:05	11/08/22 12:10	4'
890-3417-15	B-58-4'-110822	Solid	11/07/22 12:10	11/08/22 12:10	4'
890-3417-16	B-59-4'-110822	Solid	11/07/22 12:15	11/08/22 12:10	4'
890-3417-17	B-60-4'-110722	Solid	11/07/22 12:20	11/08/22 12:10	4'
890-3417-18	B-61-4'-110722	Solid	11/07/22 12:25	11/08/22 12:10	4'
890-3417-19	B-62-4'-110722	Solid	11/07/22 12:30	11/08/22 12:10	4'
890-3417-20	B-63-4'-110722	Solid	11/07/22 12:35	11/08/22 12:10	4'
890-3417-21	B-64-4'-110722	Solid	11/07/22 12:40	11/08/22 12:10	4'
890-3462-1	SW-10A-0-4-111422	Solid	11/14/22 09:00	11/15/22 08:07	0 - 4
890-3462-2	B-65A-5-111422	Solid	11/14/22 09:05	11/15/22 08:07	5
890-3462-3	B-66A-5-111422	Solid	11/14/22 09:10	11/15/22 08:07	5
890-3462-4	B-67A-5-111422	Solid	11/14/22 09:15	11/15/22 08:07	5
890-3462-5	B-68A-5-111422	Solid	11/14/22 09:20	11/15/22 08:07	5

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-4315-489.4
Client Contact: Justin Nixon	Phone: 575-390-4618	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:

Address: 1004 North Big Spring Suite 300	Due Date Requested:	
City: Midland	TAT Requested (days): 24 hr: CT Standard: TPH, BTEX	
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No	
Phone: 432-296-9547(Tel)	PO #: Purchase Order Requested	
Email: Justin.Nixon@arcadis.com	WO #: 30153056	
Project Name: Copperhead 30153056	Project #: 88001520	
Site: Eddy County	SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

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, 8021B, MOISTURE_2540G, FK_1005	Cl 300	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N				
SW-10A-0.4'-111422	11/14	900		Solid			X	X		TNM007 -0.2 2.2/2.0
B-65A-5'-111422	"	905		Solid			X	X		
B-66A-5'-111422	"	910		Solid			X	X		
B-67A-5'-111422	"	915		Solid			X	X		
B-68A-5'-111422	X	920		Solid			X	X		
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

890-3462 Chain of Custody

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]	11/15/22 0700		[signature]	11.15.22 8:07	
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: 01/16/2019

Page 402 of 406
Received by OCD: 3/21/2023 10:12:02 AM
11/30/2022 (Rev. 1)
Page 189 of 191
Released to Imaging: 4/26/2023 10:12:53 AM

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 890-3462-2

Login Number: 3462 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Clifton, Cloe

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: 890-3462-2

Login Number: 3462 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 11/16/22 02:15 PM**
Creator: Rodriguez, Leticia

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

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Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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

CONDITIONS

Action 199240

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 199240
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please remember to include in the closure report re-seeding procedures for the pasture.	4/26/2023