



COG (ConocoPhillips)

2024 Soil Remediation Summary and Closure Request Report

SRO SWD #104

Incident # NAB1627849311

May 2024

2024 Soil Remediation Summary and Closure Request Report

2024 Soil Remediation Summary and Closure Request Report

SRO SWD #104

Incident # NAB1627849311

May 2024

Prepared By:

Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620

Prepared For:

Ike Tavaréz
Project Manager
ConocoPhillips RM&R
600 W. Illinois Ave.
Midland, TX 79701

Our Ref:

30214270



Justin Nixon
Certified Project Manager



Scott Foord, PG
Certified Project Manager

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

www.arcadis.com

2024 Soil Remediation Summary and Closure Request Report

Contents

1 Introduction 1

2 Project Summary 1

 2.1 Incident # NAB1627849311 1

3 Site Characterization 1

 3.1 Initial Site Characterization 1

 3.2 Soil Assessment Activities 2

4 Closure Criteria for Soils Impacted by a Release 2

5 Remediation Activities Summary..... 3

 5.1 Soil Removal 3

 5.2 Excavation Confirmation Sampling Activities 3

 5.3 Chloride 4

 5.4 TPH..... 4

 5.5 BTEX 4

6 Restoration, Reclamation, and Re-Vegetation Plan..... 4

7 Summary 4

8 Soil Closure Request..... 5

Tables

Table 1. 2024 Soil Analytical Results

Figures

- Figure 1. Site Location Map
- Figure 2. Topographic Map
- Figure 3 Depth to Groundwater Map
- Figure 4. Excavation Sidewall Soil Sample Locations
- Figure 5. Excavation Base Soil Sample Locations

2024 Soil Remediation Summary and Closure Request Report

Photographic Logs

Log 1. 2024 Soil Remediation Photographic Log

Appendices

Appendix A. Initial C-141 Form Incident # NAB1627849311

Appendix B. Site Characterization Data

Appendix C. Work Plan

Appendix D. Cultural Resource Inventory Cover Page

Appendix E. Laboratory Analytical Reports

2024 Soil Remediation Summary and Closure Request Report

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 SRO SWD #104 (Site) at coordinates 32.059137,-104.077356. Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located on state land approximately 17-miles southwest of the City of Malaga in Unit F, Section 10, Township 26 South, Range 28 East, Eddy County, New Mexico. The site is located within a medium karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # NAB1627849311

According to the Initial C-141 Form, on October 2, 2016, a 3-inch steel flowline failed due to age and corrosion resulting in the release of approximately 20 barrels (bbls) of produced water to ground surface at the Site with 8 bbls recovered. The Initial C-141 Form was submitted to the NMOCD on October 4, 2016 and assigned Incident ID number NAB1627849311. The Initial C-141 Form is included as **Appendix A**.

3 Site Characterization

3.1 Initial Site Characterization

Soil assessment activities were performed at the Site on August 10-11, 2023 by Standard Safety Environmental (Standard) to determine the horizontal and vertical extent of the release area.

After a review of the New Mexico Office of State Engineers (NMOSE) and United States Geological Survey (USGS) databases, there were no known water sources within a 0.5-mile radius of the Site. Arcadis contracted Standard to install an exploratory borehole to determine if depth to water (dtw) is greater than 100 feet below ground surface (bgs) as indicated by other water wells installed in the region. The exploratory boring was installed on August 31, 2023, by Standard Safety to a depth of 102 feet bgs. No groundwater was encountered during initial drilling activities. The borehole was left open for 72 hours. Arcadis gauged the exploratory boring again and confirmed the hole remained dry at 102 feet bgs. The borehole was plugged with bentonite grout following gauging activities. A depth to Groundwater Map is included as **Figure 3**.

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

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

2024 Soil Remediation Summary and Closure Request Report

- Any other fresh water well or spring: Between 1/2 and 1 mile
- Incorporated municipal boundaries or a defined municipal fresh water well field: > 5 miles
- A wetland: Between 1 and 5 miles
- A subsurface mine: > 5 miles
- A (non-karst) unstable area: > 5 miles
- Categorize the risk of this well/site being in Karst Geology: Medium
- A 100-year floodplain: Between 1 and 5 miles
- Did the release impact areas not on an exploration, development, production, or storage site? No

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

3.2 Soil Assessment Activities

Arcadis began excavation activities at the Site in February 2024. Chloride concentrations in soil were determined during excavation activities to be below the applicable screening limit of 20,000 milligrams per kilogram (mg/Kg) for chloride at depths of approximately 4 feet bgs within the pit area located west of the pad. Analytical soil sample results from soil assessment activities, the groundwater determination boring, and the initial proposed remediation/reclamation activities and site characterization for the impacted areas are detailed in the 2023 Work Plan submitted previously by Arcadis to the NMOCD (see **Appendix C**).

4 Closure Criteria for Soils Impacted by a Release

The NMOCD classifies the Site to use the least stringent regulatory limits due to depth to groundwater being greater than 100 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 100 feet bgs:

Constituent	Limit (mg/Kg)
Chloride	20,000 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

2024 Soil Remediation Summary and Closure Request Report

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. A Cultural Resource Inventory (CRI) was completed in compliance with the New Mexico State Land Office (NMSLO) Cultural Properties Protection (CPP) Rule Prior to any excavation activities within undisturbed areas located off of the well pad at the Site by Paleo West, LLC DBA Chronicle Heritage on February 13, 2024. The CRI cover page is included in **Appendix C**.

Soil remediation activities were performed by Arcadis and Standard from February 13 through March 4, 2024. Photo-ionization detector (PID) readings, chloride field screening with Hach field test strip results, and laboratory analytical results from the pre-remediation assessment activities were evaluated prior to and during remediation activities to determine the lateral and vertical extent of soil impacted by the release. Lateral and vertical delineation of the impacted soil requiring removal was based on samples collected from the perimeter and bottom of the release area. Based on these results, it was determined that the release covered an approximately 24,300 square foot area northwest of the tank battery on pad and northwest of the pad in the pasture. Soil analytical results are discussed in **Sections 5.3, 5.4, and 5.5**.

Excavation activities were conducted to a maximum depth of approximately 4 feet bgs in the pasture and pad area. Approximately 5,700 cubic yards of impacted soil were excavated from the release area. The limits of the excavation are presented on **Figure 3**. Excavated soil was stockpiled on-site, adjacent to the release area on 20 millimeter (mil) thick plastic sheeting and covered with 20 mil plastic sheeting during remediation activities.

The stockpiled soil was disposed offsite at the R360 Red Bluff Landfill facility located at 5053 US Hwy 285, in Orla, Texas as Class 2 non-hazardous material. Standard transported a total of 285 truckloads of soil directly to the landfill on February 14 through March 1, 2024. Copies of disposal manifests can be provided upon request. Photographic documentation of the excavation activities is attached in the **Photographic Log**.

5.2 Excavation Confirmation Sampling Activities

Arcadis personnel conducted excavation confirmation soil sampling activities on February 14 through March 1, 2024 for laboratory analyses. Following excavation of the impacted area, confirmation soil samples were collected from the sidewalls and bottom of the excavation as needed to maintain an approximate 400 square foot sample spacing or less as approved by the NMOCD in the variance request/work plan on November 30, 2023, for both sidewalls and base of the excavated area. Once backfill was delivered from the R360 Red Bluff Landfill facility a 5-point composite sample was collected from the backfill material to confirm all constituents were below the NMOCD reclamation limit for chloride, TPH, and BTEX. Base confirmation sample locations are depicted in **Figure 2** and excavation sidewall confirmation samples are depicted in **Figure 3**.

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

2024 Soil Remediation Summary and Closure Request Report

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 area base at 4 feet bgs were below the NMAC closure criteria of 20,000 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

A Reclamation Plan with proposed reclamation activities and anticipated scheduling will be submitted to NMOCD and NMSLO for review following approval of the Soil Remediation Summary and Closure Request Report.

Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration limits had been removed from the production pad (former pit location) and surrounding pasture areas north and west of the pad, 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. Excavated areas were topped with a topsoil similar to native the surrounding pasture material. The off pad disturbed areas will be reseeded during the first favorable growing season following closure of the site in accordance with NMAC part 19.15.29.13 with an SLO approved seed mixture based on the following soil types: Reagan loam (31.4 %) - Alluvium and/or eolian deposits and Upton gravelly loam (68.6 %) - Residuum weathered from limestone at the Site.

7 Summary

Analytical results associated with recent remediation activities conducted in 2024 indicate that the horizontal and vertical extent of chloride, TPH, and BTEX impact in soil above NMAC screening standards for a site with depth the groundwater greater than 100 feet bgs have been delineated both horizontally and vertically and excavated from the impacted area.

2024 Soil Remediation Summary and Closure Request Report

8 Soil Closure Request

Remediation activities were conducted in accordance with the NMOCD standards outlined in Table I of NMAC part 19.15.29.12 utilizing 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 SRO SWD #104 site for Incident ID number NAB1627849311.

Tables



Table 1
2024 Soil Analytical Results
SRO SWD #104
Incident #NAB1627849311
COG (ConocoPhillips)

Sample ID	Date	Depth (ft)	Soil Status	BTEX Methods					TPH Methods				CI Method
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	ORO C28-C36 (mg/kg)	Total TPH (mg/kg)	Chloride, Dissolved (mg/kg)
B-1-S-4'	2/14/2024	4	In-Situ	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	44.5 JB	18.1 J	<15.1	62.6	7,810 F1
B-2-S-4'	2/14/2024	4	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	44.7 JB	15.9 J	<14.9	60.6	12,300
B-3-S-4'	2/14/2024	4	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	44.5 JB	16.9 J	<14.9	61.4	3,840
B-4-S-4'	2/14/2024	4	In-Situ	<0.000388	<0.00046	<0.00057	<0.00102	<0.00102	39.4 JB	17.2 J	<14.9	56.6	4,010
B-5-S-4'	2/14/2024	4	In-Situ	<0.000383	<0.000453	<0.000562	<0.001	<0.001	44 JB	16.8 J	<14.9	60.8	10,100
B-6-S-4'	2/15/2024	4	In-Situ	<0.000381 *1	<0.000451 *-*1	<0.000559 **1	<0.001 **	<0.001 **	16.6 JB	<14.9	<14.9	16.6 J	5,080
B-7-S-4'	2/15/2024	4	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	16.2 JB	<15	<15	16.2 J	2,280
B-8-S-4'	2/15/2024	4	In-Situ	<0.000381 *1	<0.000451 *-*1	<0.000559 **1	<0.001 **	<0.001 **	17.1 JB	16.6 JB	<15.2	33.7 J	154
B-9-S-4'	2/15/2024	4	In-Situ	<0.000387 *1	<0.000459 *-*1	<0.000568 **1	<0.00102 **	<0.00102 *	18.5 JB	15.7 JB	<15	34.2 J	4,110
B-10-S-4'	2/15/2024	4	In-Situ	<0.000386 *1	<0.000457 *-*1	<0.000566 **1	<0.00101 **	<0.00101 *	16.3 JB	<14.9	<14.9	16.3 J	54.3
B-11-S-4'	2/15/2024	4	In-Situ	<0.000382 *1	<0.000452 *-*1	<0.000561 **1	<0.001 **	<0.001 **	17 JB	<15	<15	17 J	9,000
B-12-S-4'	2/19/2024	4	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.8	<49.8	<49.8	<49.8	4,090
B-13-S-4'	2/19/2024	4	In-Situ	<0.002	<0.002	<0.002	<0.004	<0.004	<50.4	<50.4	<50.4	<50.4	201
B-14-S-4'	2/19/2024	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.5	<50.5	<50.5	<50.5	90.3
B-15-S-4'	2/19/2024	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.2	<50.2	<50.2	<50.2	200
B-16-S-4'	2/19/2024	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.4	<50.4	<50.4	<50.4	106
B-17-S-4'	2/19/2024	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.3	<50.3	<50.3	<50.3	1,430
B-18-S-4'	2/19/2024	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50	<50	<50	<50	5,940
B-19-S-4'	2/20/2024	4	In-Situ	<0.002	<0.002	<0.002	<0.00399	<0.00399	<50.4	<50.4	<50.4	<50.4	2,040
B-20-S-4'	2/20/2024	4	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.8	<49.8	<49.8	<49.8	2,310
B-21-S-4'	2/20/2024	4	In-Situ	<0.002	<0.002	<0.002	<0.004	<0.004	<49.7	<49.7	<49.7	<49.7	3,070
B-22-S-4'	2/20/2024	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.6	<49.6	<49.6	<49.6	3,280
B-23-S-4'	2/20/2024	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.5	<50.5	<50.5	<50.5	3,590 F1
B-24-S-4'	2/20/2024	4	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.7	<49.7	<49.7	<49.7	5,570
B-25-S-4'	2/21/2024	4	In-Situ	<0.002	<0.002	<0.002	<0.00399	<0.00399	<50.5 *1	<50.5	<50.5	<50.5	647
B-26-S-4'	2/21/2024	4	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9 *1	<49.9	<49.9	<49.9	250
B-27-S-4'	2/21/2024	4	In-Situ	<0.002	<0.002	<0.002	<0.00401	<0.00401	<49.7 *1	<49.7	<49.7	<49.7	860
B-28-S-4'	2/21/2024	4	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8 *1	<49.8	<49.8	<49.8	7,700
B-29-S-4'	2/21/2024	4	In-Situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50 *1	<50	<50	<50	3,480
B-30-S-4'	2/21/2024	4	In-Situ	<0.002	<0.002	<0.002	<0.00399	<0.00399	<50.2 *1	<50.2	<50.2	<50.2	5,390
B-31-S-4'	2/22/2024	4	In-Situ	0.000707 JB	<0.000454	<0.000563	0.00105J33:J53	0.00105J33:J53	44.6 JB	26.2 JB	<15.1	70.8	267
B-32-S-4'	2/22/2024	4	In-Situ	0.000762 JB	<0.000451	<0.000559	<0.001	<0.001	48.6 JB	32 JB	<15.1	80.6	60.9
B-33-S-4'	2/23/2024	4	In-Situ	0.000761 JB	<0.000453	<0.000562 F1F2	0.0011 J	0.0011 J	42.6 JB	81.7 B**1	<15.1	124	255
B-34-S-4'	2/23/2024	4	In-Situ	0.000742 JB	<0.000451	<0.000559	0.00106 J	0.00106 J	37 JB	19.9 JB**	<15.2	56.9	5,510



Table 1
2024 Soil Analytical Results
SRO SWD #104
Incident #NAB1627849311
COG (ConocoPhillips)

Sample ID	Date	Depth (ft)	Soil Status	BTEX Methods					TPH Methods				CI Method
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	ORO C28-C36 (mg/kg)	Total TPH (mg/kg)	Chloride, Dissolved (mg/kg)
B-35-S-4'	2/26/2024	4	In-Situ	0.000771 JB	0.000605 J	<0.000563	0.0014 J	0.0014 J	48.3 JF1B	34.3 JF1B	<14.9	82.6	1,580
B-36-S-4'	2/26/2024	4	In-Situ	0.000705 JB	<0.000451	<0.000559	0.00103 J	0.00103 J	47.1 JB	33.4 JB	<15.2	80.5	3,490
B-37-S-4'	2/26/2024	4	In-Situ	0.00074 JB	<0.00046	<0.00057	<0.00102	<0.00102	<15	44.9 JB	<15	44.9 J	1,170
B-38-S-4'	2/26/2024	4	In-Situ	0.000754 JB	<0.000457	<0.000566	<0.00101	<0.00101	45 JB	35.7 JB	<14.9	80.7	3,330
B-39-S-4'	2/26/2024	4	In-Situ	0.000707 JB	<0.000455	<0.000564	<0.00101	<0.00101	<15	37.7 JB	<15	37.7 J	3,740
B-40-S-4'	2/27/2024	4	In-Situ	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	48.4 J*1	48.3 J*+	<15.2	96.7	1,870
B-41-S-4'	2/27/2024	4	In-Situ	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<14.9 *1	46.4 J*+	<14.9	46.4 J	4,380
B-42-S-4'	2/27/2024	4	In-Situ	<0.000383	<0.000453	<0.000562	<0.001	<0.001	47 J*1	45.5 J*+	<15	92.5	1,560
B-43-S-4'	2/28/2024	4	In-Situ	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	47.3 J*1	43.3 J*+	<15	90.6	2,500 F1
B-44-S-4'	2/28/2024	4	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	48.2 J*1	43.3 J*+	<15.1	91.5	410
B-45-S-4'	2/28/2024	4	In-Situ	<0.000381	<0.000451	<0.000559	<0.001	<0.001	42.6 J*1	41.3 J*+	<15.2	83.9	2,400
B-46-S-4'	2/28/2024	4	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	40.7 J*1	45.9 J*+	<14.9	86.6	2,990
B-47-S-4'	2/28/2024	4	In-Situ	<0.000388	<0.00046	<0.00057	<0.00102	<0.00102	47.7 J*1	41.4 J*+	<15.1	89.1	2,070
B-48 -S-4'	2/29/2024	4	In-Situ	0.000742 JB	0.000485 J	<0.000564	0.00116 J	0.00116 J	47 J*1	36.1 J	<15	83.1	4,300
B-49-S-4'	2/29/2024	4	In-Situ	0.000715 JB	0.000561 J	<0.000561	0.00109 J	0.00109 J	44.2 J*1	32.5 J	<15.1	76.7	8,050
B-50-S-4'	2/29/2024	4	In-Situ	0.000745 JB	<0.000456	<0.000565	<0.00101	<0.00101	43.4 J*1	35.1 J	<15.2	78.5	7,360
B-51-S-4'	2/29/2024	4	In-Situ	0.000745 JB	<0.000453	<0.000562	0.00105 J	0.00105 J	48.6 J*1	31.8 J	<15	80.4	10,800
B-52-S-4'	3/1/2024	4	In-Situ	<0.000383	<0.000453	<0.000562	<0.001	<0.001	39.6 JB	96.3 B	<15	136	2,990 F1
B-53-S-4'	3/1/2024	4	In-Situ	<0.000382	<0.000452	<0.000561	<0.001	<0.001	46.2 JB	22.4 JB	<15	68.6	894
B-54-S-4'	3/1/2024	4	In-Situ	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	44.6 JB	21.6 JB	<15	66.2	3,090
B-55-S-4'	3/1/2024	4	In-Situ	<0.000388	<0.00046	<0.00057	<0.00102	<0.00102	47.6 JB	41.9 JB	<15.1	89.5	2,900
B-56-S-4'	3/1/2024	4	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	45.8 JB	31.1 J	<14.9	76.9	255
B-57-S-4'	3/1/2024	4	In-Situ	<0.000382	<0.000452	<0.000561	<0.001	<0.001	49.7 JB	32.9 J	<15	82.6	1,100
B-58-S-4'	3/1/2024	4	In-Situ	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	46.8 JB	30.9 J	<15	77.7	3,400
B-59-S-4'	3/1/2024	4	In-Situ	<0.000388	<0.00046	<0.00057	<0.00102	<0.00102	47 JB	34 J	<14.9	81	5,320
B-60-S-4'	3/1/2024	4	In-Situ	<0.000383	<0.000453	<0.000562	<0.001	<0.001	48.1 JF2B	98.8	<15	147	3,140
B-61-S-4'	3/1/2024	4	In-Situ	<0.000382	<0.000452	<0.000561	<0.001	<0.001	46.6 J*1	31.5 J	<14.9	78.1	3,060
SW-1-S-2'	2/19/2024	2	In-Situ	<0.002	<0.002	<0.002	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	57.3
SW-2-S-2'	2/15/2024	2	In-Situ	<0.000384 *1	<0.000455 *-*1	<0.000564 **1	<0.00101 *+	<0.00101 *	17.2 JB	36.9 JB	<15.1	54.1	24.3
SW-3-S-2'	2/15/2024	2	In-Situ	<0.000388 *1	<0.00046 *-*1	<0.00057 **1	<0.00102 *+	<0.00102 *	18.6 JB	17.3 JB	<15	35.9 J	384
SW-4-S-2'	2/21/2024	2	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.6 *1	<49.6 F1	<49.6	<49.6	44.4
SW-5-S-2'	2/26/2024	2	Removed	0.00073 JB	<0.000458	<0.000567	<0.00101	<0.00101	<14.9	79.3 B	<14.9	79.3	738
SW-5-S-2'	2/27/2024	2	Removed	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,230
SW-5A-S-2'	2/27/2024	2	Removed	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15 *1	53.1 *+	<15	53.1	NA



Table 1
2024 Soil Analytical Results
SRO SWD #104
Incident #NAB1627849311
COG (ConocoPhillips)

Sample ID	Date	Depth (ft)	Soil Status	BTEX Methods					TPH Methods				CI Method
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	ORO C28-C36 (mg/kg)	Total TPH (mg/kg)	Chloride, Dissolved (mg/kg)
SW-5B-S-2'	3/1/2024	2	In-Situ	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	47 J*1	32.6 J	<15	79.6	247
SW-6-S-2'	2/27/2024	2	In-Situ	<0.000383 F2F1	<0.000454 F2F1	<0.000563 F2F1	<0.00101 F2F1	<0.00101 F2	<15 *1	33.5 J*+	<15	33.5 J	150
SW-7-S-2'	2/28/2024	2	Removed	<0.000382	<0.000452	<0.000561	<0.001	<0.001	48.9 J*1	46.6 J*+	<15	95.5	636
SW-7A-S-2'	2/28/2024	2	In-Situ	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	43.6 J*1	42.5 J*+	<14.9	86.1	361
SW-8S-2'	2/22/2024	2	In-Situ	0.00073 JB	<0.000452	<0.000561	0.001 J	0.001 J	47 JB	28.6 JB	<15	75.6	87.3
Backfill	3/1/2024	R360 Stockpile	In-Situ	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.3
Backfill	4/22/2024	Stockpile	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	NA
NMOCD Reclamation Standard				10	--	--	--	50	--	--	--	100	600
NMOCD Closure Criteria				10	--	--	--	50	--	--	--	2,500	20,000

Legend:

Analytes exceeding NMAC standards are indicated in **bold**

'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)

mg/kg: Milligram per Kilogram

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

TPH ORO: Total Petroleum Hydrocarbons Oil Range Organics

" " " : Indicates one foot

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

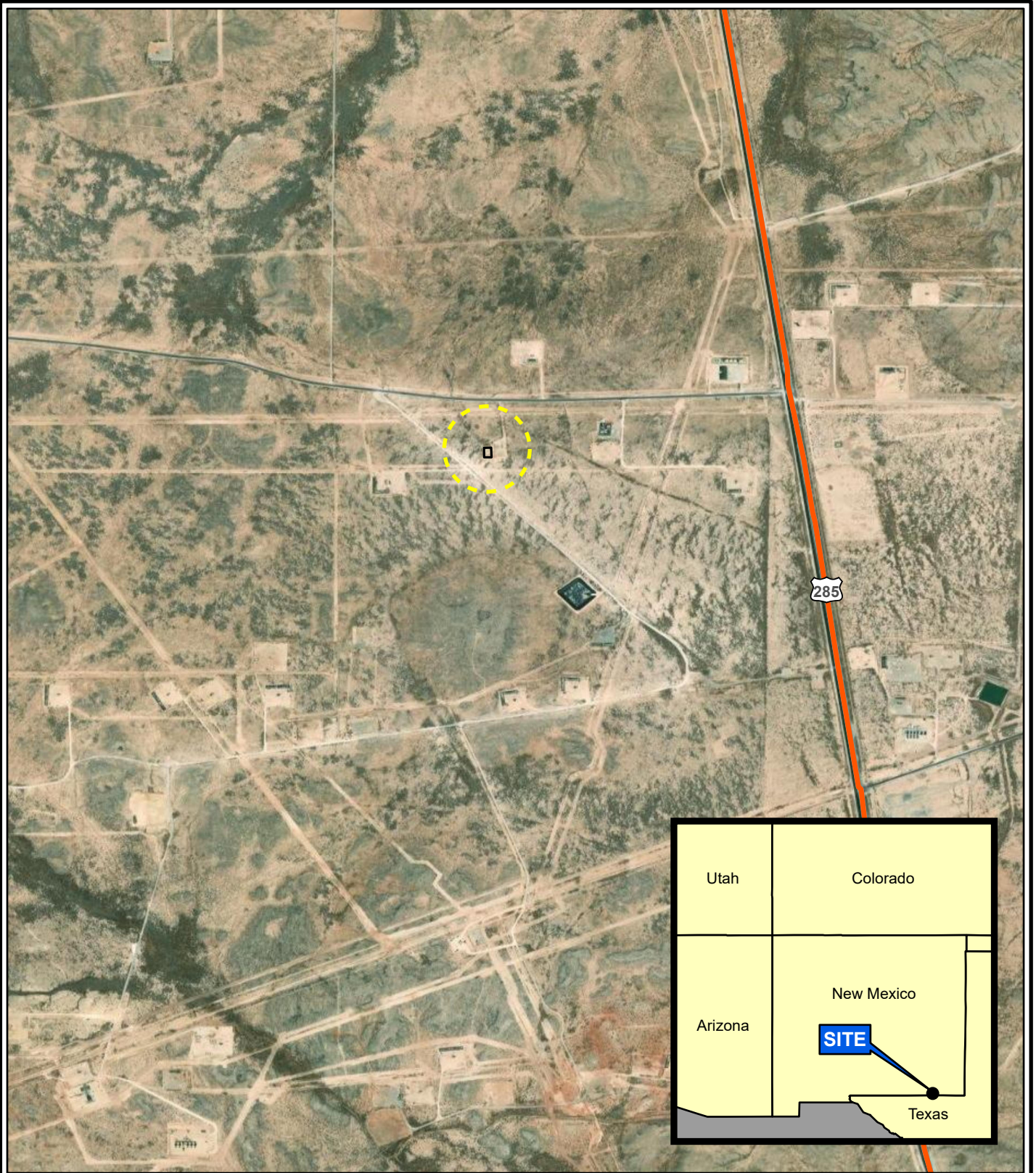
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

NMOCD: New Mexico Oil Conservation Division

--: No individual standard

Figures

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG\NM\SRO SWD 104\SRO SWD 104.aprx 9/29/2023 9:37 AM



DRAFT

Legend

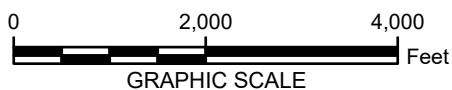
— Site Location

NOTES:

Datum: D_WGS_1984

Source: Bing Map

Site Location: 32.0588762°, -104.0775036°



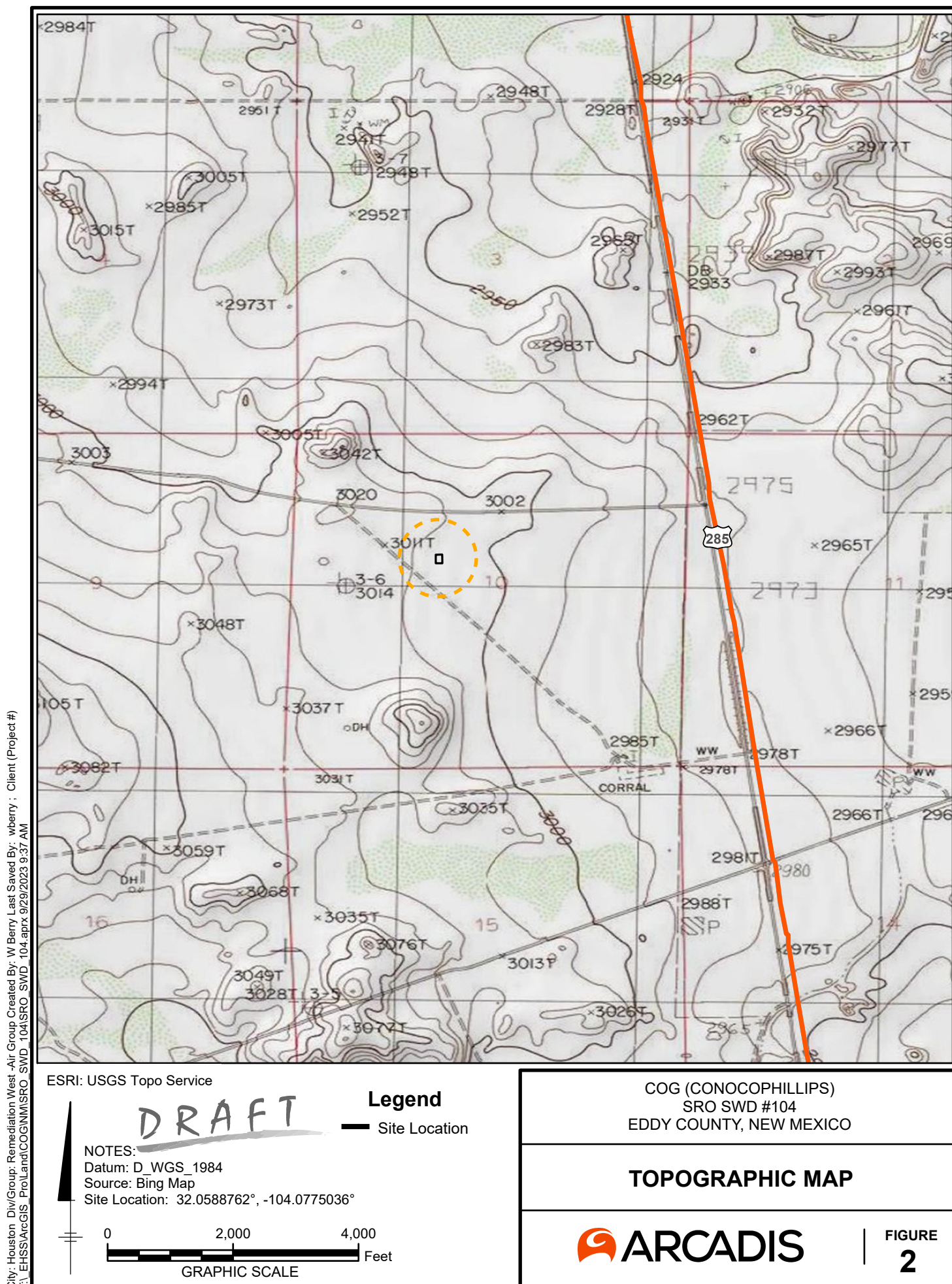
GRAPHIC SCALE

COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP



**FIGURE
1**



City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COGN\MSRO SWD_104\MSRO SWD_104.aprx 10/2/2023 10:25 AM



Legend

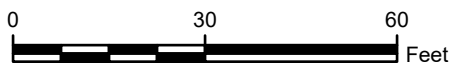
-  GWDB (Groundwater Determination Boring)
102 ft bgs

NOTES:

Datum: D_WGS_1984

Source: Bing Map

Site Location: 32.0588762°, -104.0775036°



GRAPHIC SCALE

COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

DEPTH TO GROUNDWATER MAP



FIGURE
3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG COPINMSRO SWD 104\SR0 SWD 104.aprx 3/26/2024 3:51 PM

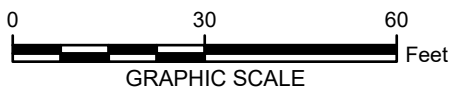


NOTES:
Datum: D_WGS_1984
Source: Google Earth, January 2023
Site Location: 32.0588762°, -104.0775036°

DRAFT

LEGEND

-  Sidewall Sample
-  Excavated Area



GRAPHIC SCALE

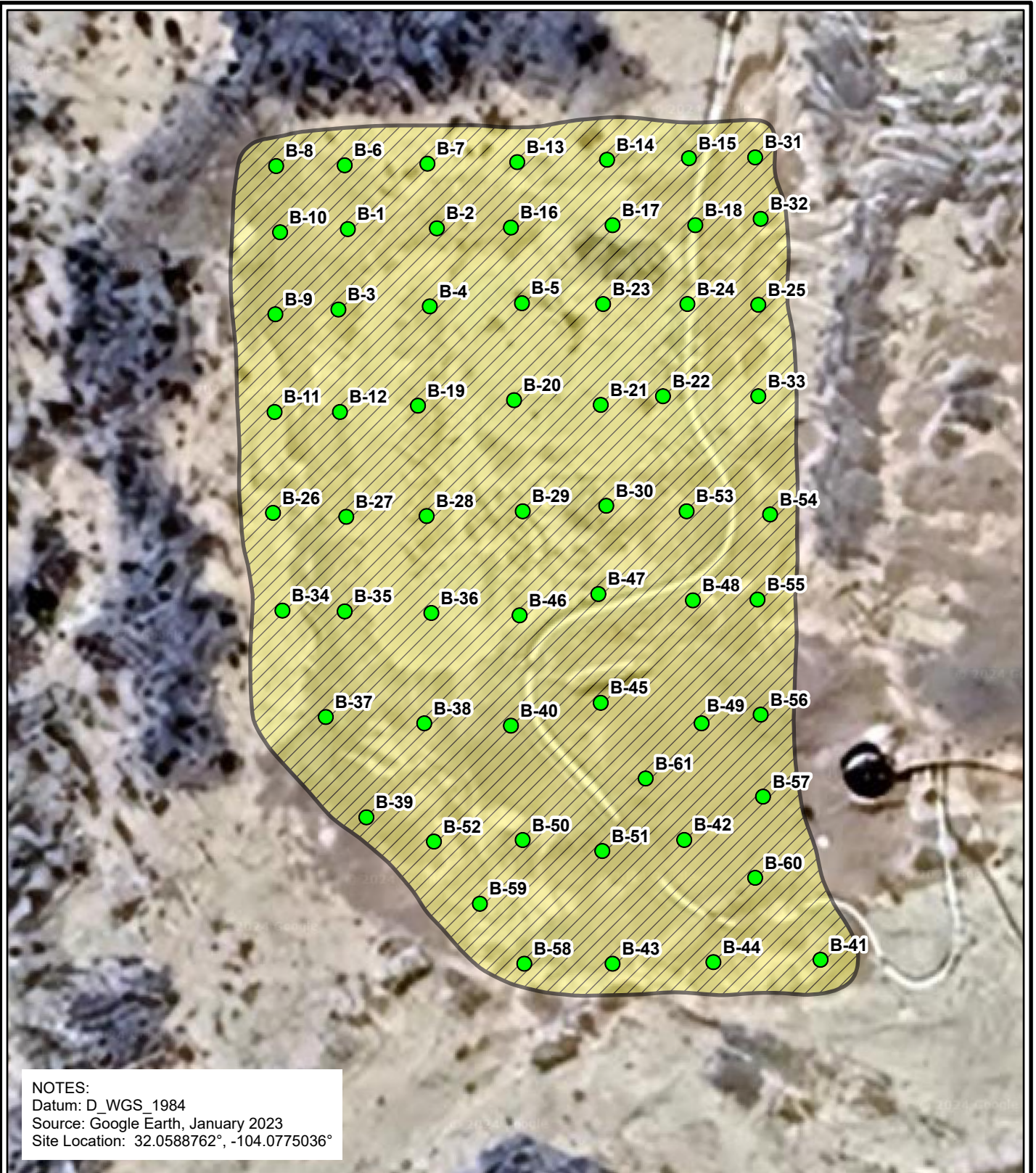
COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

**EXCAVATION SIDEWALL
SOIL SAMPLE LOCATIONS**



FIGURE
4

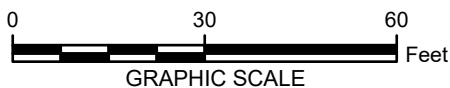
City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry : Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG COPINMSRO SWD 104\SR0 SWD 104.aprx 3/29/2024 9:16 AM



NOTES:
Datum: D_WGS_1984
Source: Google Earth, January 2023
Site Location: 32.0588762°, -104.0775036°

LEGEND

- Base Sample
- Excavated Area



COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS



FIGURE
5

Photographic Logs

		PHOTOGRAPHIC LOG	
Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 1	Date: 02/22/2024		
Direction Photo Taken: SW			
Description: Excavation 32.059106, -104.077369			

		PHOTOGRAPHIC LOG	
Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 2	Date: 002/26/2024		
Direction Photo Taken: NE			
Description: Excavation 32.058720, -104.077491			

		PHOTOGRAPHIC LOG	
Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 3	Date: 02/28/2024		
Direction Photo Taken: SW			
Description: Beginning of backfilling excavation. Topsoil for reclamation. 32.059137, -104.077356			

		PHOTOGRAPHIC LOG	
Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 4	Date: 03/04/2024		
Direction Photo Taken: N			
Description: Excavation Backfilled 32.058731, -104.077499			

**PHOTOGRAPHIC LOG****Property Name:**

SRO SWD #104

Location:

Eddy County, NM

Case No.

NAB1627849311

Photo No.**5****Date:**

03/04/2024

Direction Photo Taken:

Facing SE

Description:

Excavation Backfilled

32.0588913,
-104.0774612

Appendix A

Initial C-141 Form Incident #NAB1627849311

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

OCT 04 2016

Form C-141
Revised August 8, 2011

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

RECEIVED
Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company:	COG Operating LLC 229137	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	SRO SWD #104	Facility Type:	Flowline

Surface Owner:	State	Mineral Owner:	API No.	30-015-25864
----------------	-------	----------------	---------	--------------

LOCATION OF RELEASE

Unit Letter F	Section 10	Township 26S	Range 28E	Feet from the 1980'	North/South Line North	Feet from the 1980'	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	------------------------	---------------------------	------------------------	------------------------	----------------

Latitude 32.0588913 Longitude 104.0774612

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20bbbls	Volume Recovered: 8bbbls
Source of Release: Steel Flowline	Date and Hour of Occurrence: 10-02-2016 4:00 pm	Date and Hour of Discovery: 10-02-2016 4:00 pm
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A 3" steel flowline failed due to age and corrosion. Replaced the bad section with a new joint of 3" steel line.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture a 20X50 area. All free fluids were burnt up in the fire. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION	
Printed Name:	Signed By <u>Mike Brannan</u>	
Title:	Approved by Environmental Specialist:	
E-mail Address:	Approval Date: 10/4/16	Expiration Date: N/A
Date: October 4, 2016 Phone: 432-683-7443	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines ☐ SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 11/4/16	

* Attach Additional Sheets If Necessary

2RP-3925

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

Form C-141
Revised April 3, 2017
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action**OPERATOR**☐ Initial Report ☒ Final Report

Name of Company: COG Operating, LLC (OGRID# 229137)	Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.: 432-683-7443	
Facility Name: SRO SWD #104	Facility Type: SWD	
Surface Owner: State	Mineral Owner: State	API No.: 30-015-25864

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	10	26S	28E	1980	North	1980	West	Eddy

Latitude: 32.0588913 **Longitude:** -104.0774612 NAD83**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: 20bbls	Volume Recovered: 8bbls
Source of Release: Flowline	Date and Hour of Occurrence: 10-2-2016 4:00pm	Date and Hour of Discovery: 10-2-16 4:00pm
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A 3" steel flowline failed due to corrosion. The damaged section of line was replaced.		
Describe Area Affected and Cleanup Action Taken.* The release occurred on a closed pit area adjacent to the location. The soil was left in situ and treated with Calcium and Magnesium amendments to prevent compromising the legacy pit area.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		

Signature: <i>Sheldon Hitchcock</i>	OIL CONSERVATION DIVISION	
Printed Name: Sheldon L. Hitchcock	Approved by Environmental Specialist Closure not approved. Brittany Hall 12/7/2022	
Title: HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address: slhitchcock@concho.com	Conditions of Approval:	Attached ☐
Date: 4/26/2018	Phone: 575-746-2010	

* Attach Additional Sheets If Necessary

Incident ID	NAB1627849311
District RP	NA
Facility ID	NA
Application ID	NA

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?	<u>102</u> (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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1627849311
District RP	NA
Facility ID	NA
Application ID	NA

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: _____ 10/30/2023 _____

email: _____ Ike.Tavarez@conocophillips.com _____ Telephone: _____ 432-701-8630 _____

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1627849311
District RP	NA
Facility ID	NA
Application ID	NA

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: Ike Tavarez Title: Project Manager RM&R

Signature: _____ Date: 10/30/2023

email: Ike.Tavarez@conocophillips.com Telephone: 432-701-8630

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Appendix B

Site Characterization Data

Legend

Hydrology

NMED Drinking Water Systems

▲

OSE Streams

—

OSE Probable Playas

■

OSW Water Bodys

■

OCD Districts

OCD District Offices

★

OCD Districts

□

Public Land Survey System (PLSS)

PLSS Townships

□

PLSS First Division

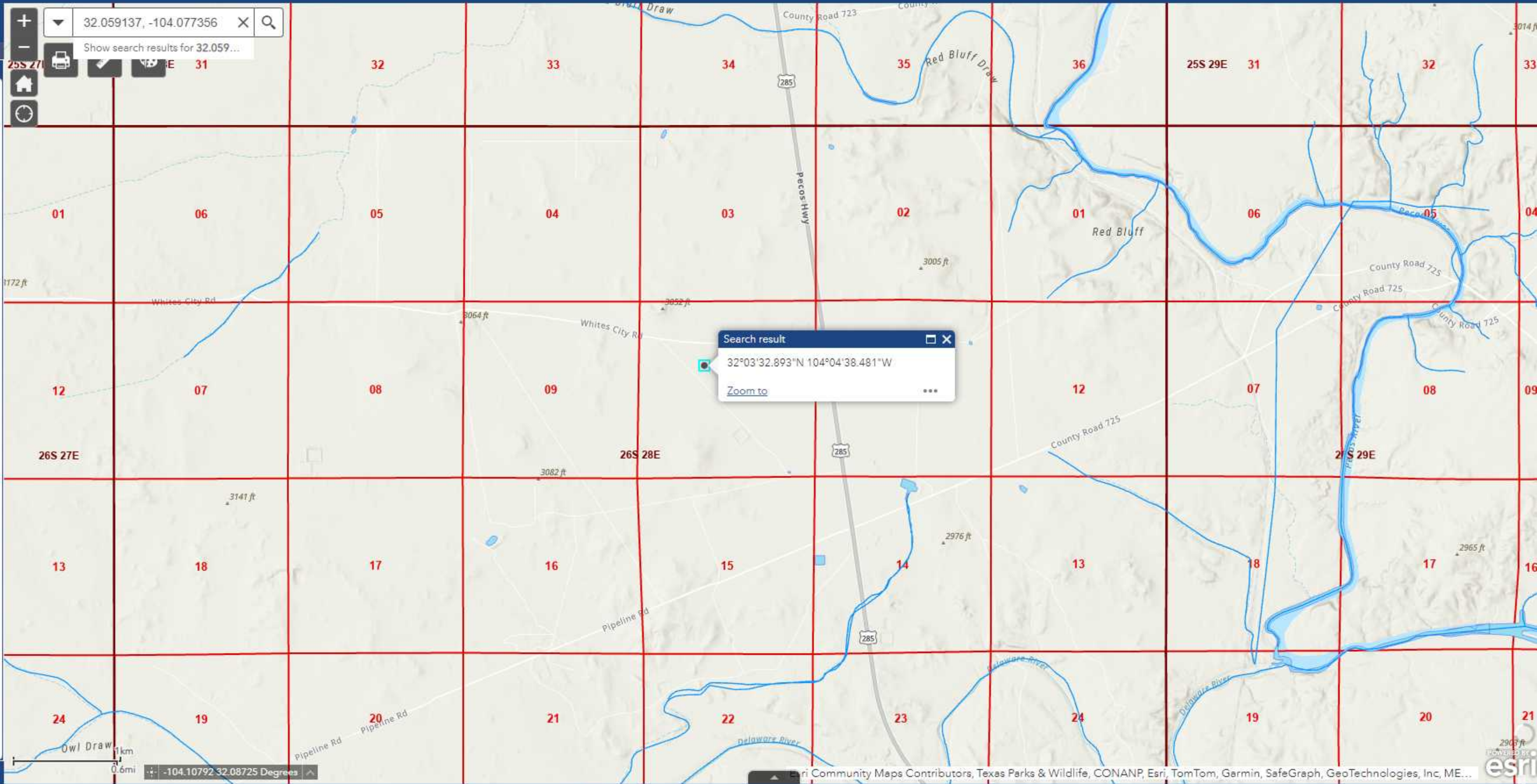
□

Received by OCD: 5/13/2024 1:58:49 PM

New Mexico Oil Conservation Division

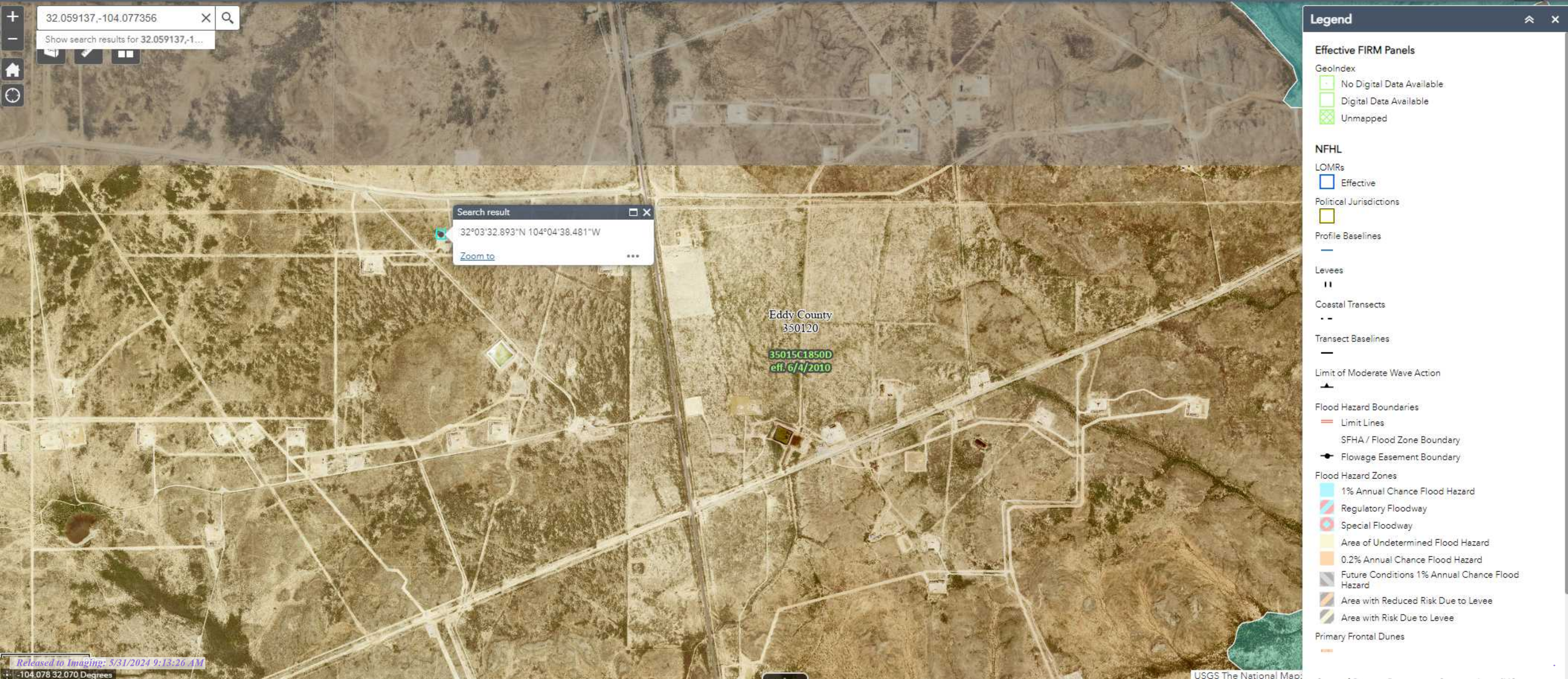
OCD Water Bodies Map

NM OCD Oil and Gas MAP Page 2 of 348





Released to Imaging: 5/31/2024 9:13:26 AM



Appendix C

Work Plan



COG (ConocoPhillips)

2023 Work Plan

SRO SWD #104

Incident # NAB1627849311

Eddy County, New Mexico

October 2023

2023 Work Plan

2023 Work Plan

SRO SWD #104
Incident # NAB1627849311
Eddy County, New Mexico
October 2023

Prepared By:

Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620

Prepared For:

Ike Tavaréz
Project Manager
ConocoPhillips RM&R
600 W. Illinois Ave.
Midland, TX 79701

Our Ref:

30190846



Justin Nixon
Task Manager



Scott Foord, PG
Certified Project Manager

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

www.arcadis.com

2023 Work Plan

Contents

1 Introduction..... 1

2 Project Summary 1

2.1 Incident # NAB1627849311 1

3 Site Characterization 1

4 NMAC Regulatory Criteria..... 1

5 Site Assessment Activities..... 2

6 Proposed Work Plan..... 2

7 Work Plan Approval Request 3

Tables

Table 1. 2023 Soil Analytical Results

Figures

- Figure 1. Site Location Map
- Figure 2. Topographic
- Figure 3. Depth to Groundwater Map
- Figure 4. Proposed Excavation and Sample Location Map

Photographic Logs

Log 1. 2023 Soil Assessment Photographic Log

Appendices

- Appendix A. Initial C-141 Form Incident # NAB1627849311 and Remediation Plan
- Appendix B. Laboratory Analytical Reports

2023 Work Plan

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Work Plan, on behalf of Concho Operating, LLC (COG – now ConocoPhillips), for the release site known as the SRO SWD #104 (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 on state land approximately 17-miles southwest of the City of Malaga in Unit F, Section 10, Township 26 South, Range 28 East, Eddy County, New Mexico. The site is located within a medium karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # NAB1627849311

According to the Initial C-141 Form, on October 2, 2016, a 3-inch steel flowline failed due to age and corrosion resulting in the release of approximately 20 barrels (bbls) of produced water to ground surface at the Site with 8 bbls recovered. The Initial C-141 Form was submitted to the NMOCD on October 4, 2016 and assigned Incident ID number NAB1627849311. The Initial C-141 Form is included as **Appendix A**.

3 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources within a 0.5-mile radius of the Site. Arcadis contracted Standard Safety to install an exploratory borehole to determine if depth to water (dtw) is greater than 100 feet below ground surface (bgs) as indicated by other water wells installed in the region. The exploratory boring was installed on August 31, 2023, by Standard Safety to a depth of 102 feet bgs. No groundwater was encountered during initial drilling activities. The borehole was left open for 72 hours. Arcadis gauged the exploratory boring again and confirmed the hole remained dry at 102 feet bgs. The borehole was plugged with bentonite grout following gauging activities. The groundwater determination boring location is depicted in **Figure 3**.

4 NMAC Regulatory Criteria

The NMOCD classifies the Site to use the least stringent regulatory limits due to depth to groundwater being confirmed greater than 100 feet bgs, and no additional conditions or stipulations are applicable to the Site. Per Table I of New Mexico Administrative Code (NMAC) part 19.15.29.12, the following closure criteria apply to the Site:

2023 Work Plan

Constituent	Limit (mg/kg)
Chloride	20,000 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	2,500 mg/kg
GRO and DRO	1,000 mg/kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/kg
Benzene	10 mg/kg

5 Site Assessment Activities

On August 10-11, 2023, Standard Safety, under the direction of Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of eleven (11) sample points were advanced to depths ranging from the surface to 5 feet bgs inside and surrounding the release area to evaluate the vertical and horizontal extents of the release. Soil sample locations are shown on **Figure 3**. Soil samples were collected for chemical analyses, 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 TPH by United States Environmental Protection Agency (EPA) Method 8015; modified BTEX by EPA Method 8021B, and chloride by EPA method 300.0.

Vertical delineation was achieved during the initial soil assessment. Horizontal delineation was assessed as well in each cardinal direction to determine the potential area of concern. Arcadis will use this data and field screening to guide remediation activities prior to collecting any laboratory analytical samples. Soil sample analytical results are summarized in **Table 1**. Laboratory reports for soil samples collected during the initial site assessment, including analytical methods, results, and chain-of-custody documents, are attached in **Appendix B**.

6 Proposed Work Plan

Based on the analytical data and the detected TPH and chloride concentrations in soil samples collected during site assessment activities, COG proposes to remediate the areas shown in **Figure 4** and highlighted (blue) in **Table 1**.

A cultural resource inventory (CRI) will not be necessary per the New Mexico State Land Office (NMSLO) Cultural Properties Protection (CPP) Rule prior to any excavation activities as all proposed work is on a previously disturbed well pad/historical pit location. If it is determined that additional remediation activities will be required on undisturbed areas at the Site, a CRI will be completed prior to initiation of those activities. Findings from the CRI will be submitted to the NMSLO following completion of the survey and prior to continuation of remediation activities within any previously undisturbed areas.

In accordance with NMAC 19.15.29.12(D)(1)(b) COG proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 400 square foot intervals for analysis of chloride by EPA Method 300.0,

2023 Work Plan

BTEX by EPA Method 8260, and TPH for GRO, DRO, and ORO by EPA Method 8015. Lateral limits of the excavation will halt once confirmation sample analytical results are in accordance with NMAC 19.15.29.12(D)(1)(c). The proposed excavation encompasses a surface area of approximately 16,740 square feet.

An estimated 3,792 cubic yards of soil will be removed and transported to the nearest NMOCD approved disposal facility. Following completion of excavation activities, the areas will be backfilled with clean material and reclaimed to match the original surface conditions and drainage.

The off pad disturbed areas (former reserve pit area) will be reseeded during the first favorable growing season following closure of the site in accordance with NMAC part 19.15.29.13 with an NMSLO approved seed mixture based on the following soil types: Reagan loam (31.4 %) - Alluvium and/or eolian deposits and Upton gravelly loam (68.6 %) - Residuum weathered from limestone at the site. These soils are well drained.

The proposed remediation activities will be implemented within 90 days following approval of this work plan by the NMSLO and NMOCD. The anticipated schedule includes 30 days to setup field work and confirm sub-contractors, 30 days to complete on-site remediation activities, and 30 days to prepare a soil remediation summary and closure request report.

7 Work Plan Approval Request

Upon completion of the above proposed soil remediation activities, a final closure request report describing the remediation activities will be submitted to the NMOCD and NMSLO for review. If you have any questions regarding this work plan or need additional information, please do not hesitate to contact Scott Foord at 281-725-7447 or Justin Nixon at 432-296-9547.

Tables

Table 1
2023 Soil Sample Analytical Results
SRO SWD #104
COG (ConocoPhillips)



Sample ID	Date	Depth (ft)		BTEX Methods				TPH Methods				CI Method
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes, Total (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	ORO C28-C36 (mg/kg)	Total TPH (mg/kg)	Chloride, Dissolved (mg/kg)
S-1-1'	08/10/2023	1		<0.000383	<0.000454	<0.000563	<0.00101	18.0J B	26.2J B *1	<15.2	44.2J	60.4
S-1-2'	08/10/2023	2		<0.000388	<0.000460	<0.000570	<0.00102	24.8J B	35.3J B *1	<14.9	60.1	114
S-1-4'	08/10/2023	4		<0.000386	<0.000457	<0.000566	<0.00101	30.6J B	22.7J B *1	<14.9	53.3	139
S-1-5'	08/10/2023	5		<0.000387	<0.000459	<0.000568	<0.00102	29.1J B	20.1J B *1	<14.9	49.2J	108
S-2-1'	08/10/2023	1		<0.000383	<0.000454	<0.000563	<0.00101	23.3J B F2	24.8J B	<15.0	48.1J	6390F1
S-2-2'	08/10/2023	2		<0.000389	<0.000461	<0.000571	<0.00102	18.7J B	20.8J B	<15.1	39.5J	3950
S-2-4'	08/10/2023	4		<0.000386	0.000768J	<0.000566	<0.00101	19.4J B	19.5J B	<15.2	38.9J	2530
S-2-5'	08/10/2023	5		<0.000384	<0.000455	<0.000564	<0.00101	18.1J B	19.2J B	<15.0	37.3J	2210
S-3-1'	08/10/2023	1		<0.000382	<0.000452	<0.000561	<0.00100	37.2J B	20.9J B	<14.9	58.1	2180
S-3-2'	08/10/2023	2		0.000767J	<0.000453	<0.000562	<0.00100	33.5J B	20.5J B	<14.9	54.0	3420
S-3-4'	08/10/2023	4		<0.000381	<0.000451	<0.000559	<0.00100	22.0J B	20.8J B	<15.0	42.8J	3840
S-3-5'	08/10/2023	5		<0.000387	<0.000458	<0.000567	<0.00101	19.1J B	21.1J B	<15.1	40.2J	4090
S-4-1'	08/10/2023	1		<0.000384	<0.000455	<0.000564	<0.00101	<14.9	<14.9	<14.9	<14.9	1180
S-4-2'	08/10/2023	2		<0.000383	<0.000454	<0.000563	<0.00101	<14.9	<14.9	<14.9	<14.9	765
S-4-4'	08/10/2023	4		<0.000381	<0.000451	<0.000559	<0.00100	<14.9	<14.9	<14.9	<14.9	708
S-4-5'	08/10/2023	5		<0.000382	<0.000452	<0.000561	<0.00100	<14.9	<14.9	<14.9	<14.9	989
S-5-1'	08/10/2023	1		<0.000388	0.000632J	<0.000570	<0.00102	<15.1	<15.1	<15.1	<15.1	52.0
S-5-2'	08/10/2023	2		<0.000389	<0.000461	<0.000571	<0.00102	<15.2	<15.2	<15.2	<15.2	44.4
S-5-4'	08/10/2023	4		<0.000386	<0.000457	<0.000566	<0.00101	<15.1	<15.1	<15.1	<15.1	56.3
S-5-5'	08/10/2023	5		<0.000383	<0.000453	<0.000562	<0.00100	<15.0	<15.0	<15.0	<15.0	42.2
S-6-1'	08/10/2023	1		<0.000381	<0.000451	<0.000559	<0.00100	<14.9	<14.9	<14.9	<14.9	176
S-6-2'	08/10/2023	2		0.000512J	<0.000458	<0.000567	<0.00101	15.2J B	<14.9	<14.9	15.2J	92.1
S-6-4'	08/10/2023	4		<0.000383	<0.000454	<0.000563	<0.00101	<15.0	<15.0	<15.0	<15.0	134
S-6-5'	08/10/2023	5		<0.000385	<0.000456	<0.000565	<0.00101	<15.1	<15.1	<15.1	<15.1	228
S-7-1'	08/10/2023	1		<0.000388	<0.000460	<0.000570	<0.00102	33.2J B	26.7J B	<15.2	59.9	8550
S-7-2'	08/10/2023	2		<0.000384	<0.000455	<0.000564	<0.00101	33.0J B	24.8J B	<15.0	57.8	6730
S-7-4'	08/10/2023	4		<0.000381	<0.000451	<0.000559	<0.00100	<14.9	22.5J B	<14.9	22.5J	7740F1
S-7-5'	08/10/2023	5		<0.000385	<0.000456	<0.000565	<0.00101	20.3J B	21.4J B	<14.9	41.7J	7870
S-8-1'	08/11/2023	1		<0.000383	<0.000454	<0.000563	<0.00101	36.9J B	23.6J B	<15.0	60.5	7300
S-8-2'	08/11/2023	2		<0.000387	<0.000458	<0.000567	<0.00101	22.8J B	21.6J B	<15.1	44.4J	5820
S-8-4'	08/11/2023	4		<0.000387	<0.000459	<0.000568	<0.00102	23.8J B	20.5J B	<15.2	44.3J	4920
S-8-5'	08/11/2023	5		<0.000388	<0.000460	<0.000570	<0.00102	46.8J B	19.8J B	<14.9	66.6	4350
S-9-1'	08/11/2023	1		<0.000386	<0.000457	<0.000566	<0.00101	34.6J B	95.0B	<14.9	130	7500
S-9-2'	08/11/2023	2		<0.000383	<0.000454	<0.000563	<0.00101	28.7J B	29.8J B	<15.0	58.5	5740
S-9-4'	08/11/2023	4		<0.000381	<0.000451	<0.000559	<0.00100	29.9J B	23.5J B	<14.9	53.4	4330
S-9-5'	08/11/2023	5		<0.000389	<0.000461	<0.000571	<0.00102	<14.9	19.3J B	<14.9	19.3J	3390
S-10-1'	08/11/2023	1		<0.000385	<0.000456	<0.000565	<0.00101	24.2J B	51.2	<15.1	75.4	6180
S-10-2'	08/11/2023	2		<0.000389	<0.000461	<0.000571	<0.00102	41.0J B	30.9J	<15.1	71.9	3990
S-10-4'	08/11/2023	4		<0.000387	<0.000459	<0.000568	<0.00102	33.5J B	29.3J	<15.0	62.8	3330
S-10-5'	08/11/2023	5		<0.000386	<0.000457	<0.000566	<0.00101	36.3J B	26.4J	<15.1	62.7	3350
S-11-1'	08/10/2023	1		<0.000383	<0.000453	<0.000562	<0.00100	<15.1	<15.1	<15.1	<15.1	175
S-11-2'	08/10/2023	2		<0.000384	<0.000455	<0.000564	<0.00101	<15.1	<15.1	<15.1	<15.1	308
S-11-4'	08/10/2023	4		<0.000387	0.000966J	<0.000568	<0.00102	<15.1	<15.1	<15.1	<15.1	801
S-11-5'	08/10/2023	5		<0.000386	<0.000457	<0.000566	<0.00101	<15.2	<15.2	<15.2	<15.2	453
NMOCD Reclamation Standard				10	--	--	--	--	--	--	100	600
NMOCD Closure Criteria				10	--	--	--	--	--	--	1,000	20,000

Legend:

Analytes exceeding NMAC Reclamation Standards are indicated in **bold**

'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)

mg/kg: Milligram per Kilogram

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

TPH ORO: Total Petroleum Hydrocarbons Oil Range Organics

" " " : Indicates one foot

S : Backhoe Assessment Sample

Notes:

1. Chloride analyzed by EPA Method 300

2. TPH analyzed by EPA Method 8015 M

3. BTEX analyzed by EPA Method 8260B

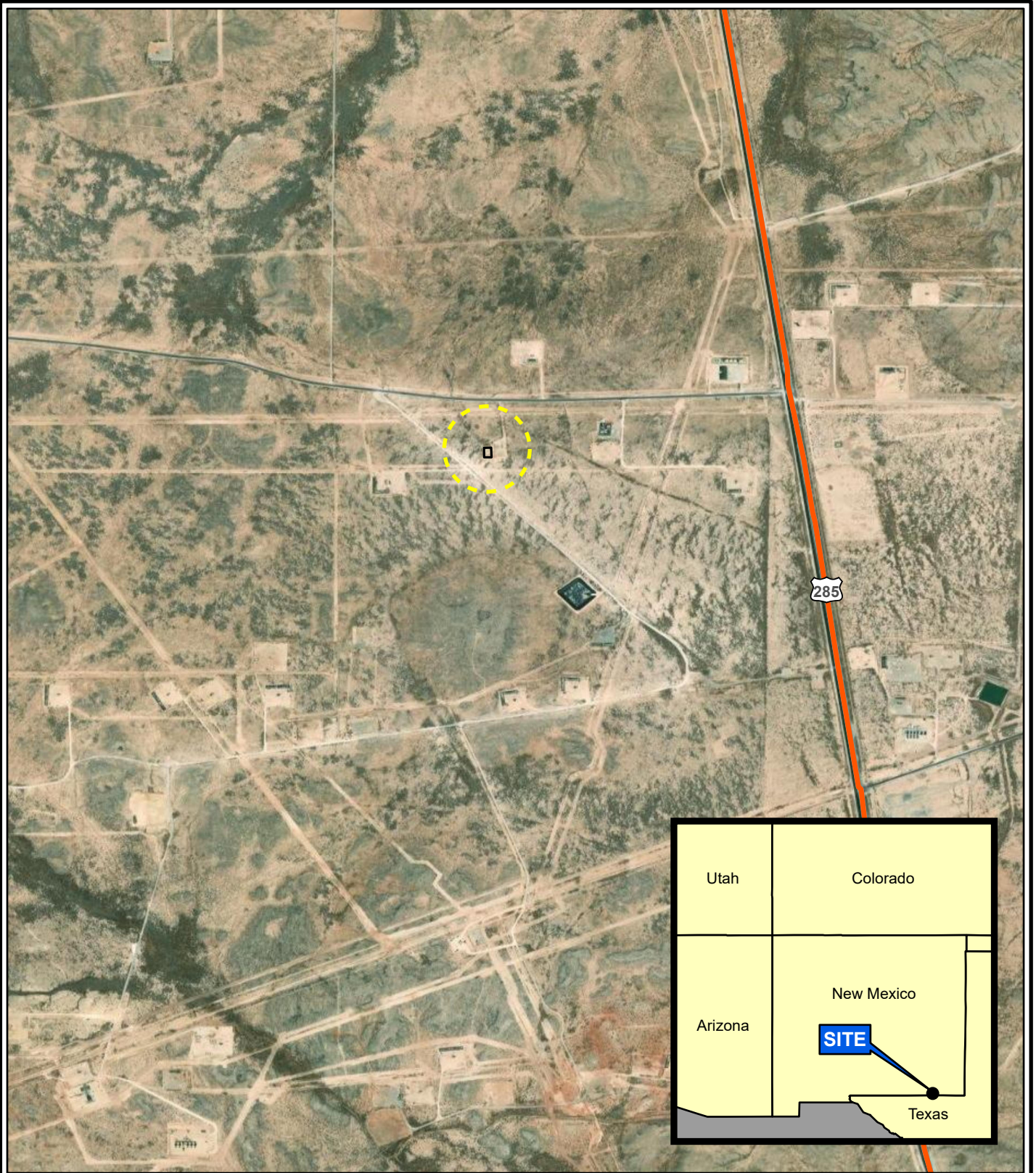
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

NMOCD: New Mexico Oil Conservation Division

--: No individual standard

Figures

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry ; Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG\NM\SRO SWD 104\SRO SWD 104.aprx 9/29/2023 9:37 AM



DRAFT

Legend

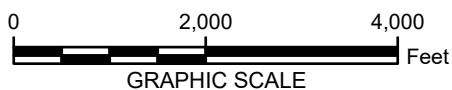
— Site Location

NOTES:

Datum: D_WGS_1984

Source: Bing Map

Site Location: 32.0588762°, -104.0775036°



GRAPHIC SCALE

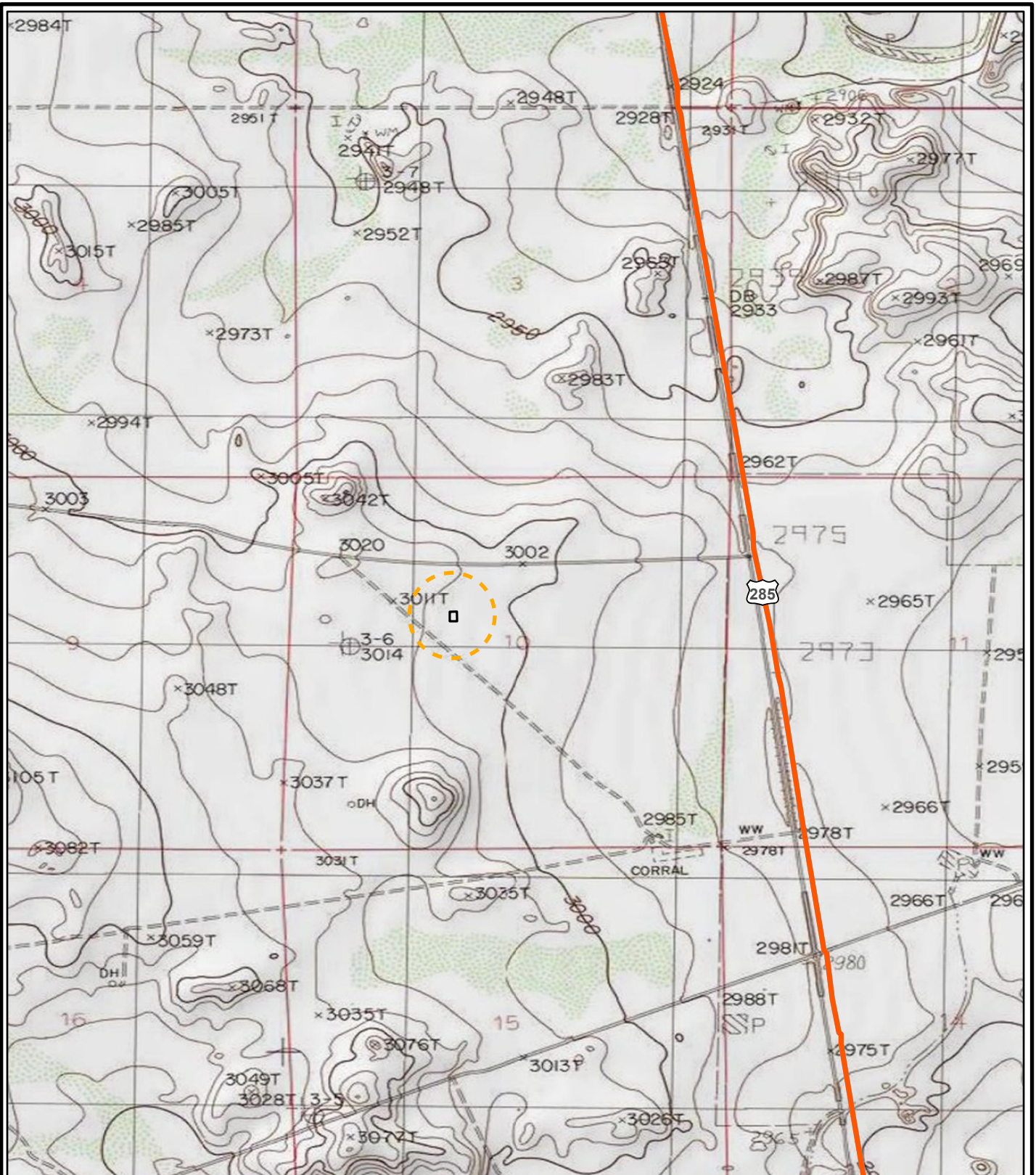
COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP



**FIGURE
1**

City: Houston Div/Group: Remediation West - Air Group Created By: W Berry Last Saved By: wberry Client (Project #)
 T:\EHSS\ArcGIS_ProLand\COG\NM\SRO_SWD_104\SRO_SWD_104.aprx 9/29/2023 9:37 AM



ESRI: USGS Topo Service



DRAFT

Legend

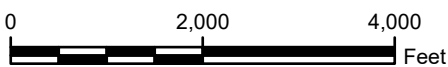
— Site Location

NOTES:

Datum: D_WGS_1984

Source: Bing Map

Site Location: 32.0588762°, -104.0775036°



GRAPHIC SCALE

COG (CONOCOPHILLIPS)
 SRO SWD #104
 EDDY COUNTY, NEW MEXICO

TOPOGRAPHIC MAP



FIGURE
2



Legend

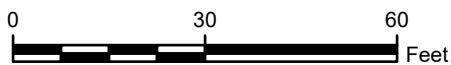
-  GWDB (Groundwater Determination Boring)
102 ft bgs

NOTES:

Datum: D_WGS_1984

Source: Bing Map

Site Location: 32.0588762°, -104.0775036°



GRAPHIC SCALE

COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

DEPTH TO GROUNDWATER MAP

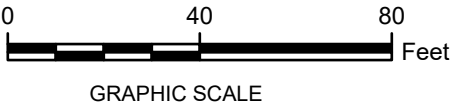


FIGURE
3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: wberry : Client (Project #)
T:\EHSS\ArcGIS Pro\Land\COG\NM\SRO_SWD_104.aprx 10/25/2023 10:22 AM



- Legend**
- ★ Release
 - Soil Sample
 - ⦿ Plugged & Abandoned
 - ▭ Historical Pit
 - ▭ Former Tank Battery
 - ⦿ Metal Containment
 - ⦿ Initial Release Footprint
 - Area of Concern



COG (CONOCOPHILLIPS)
SRO SWD #104
EDDY COUNTY, NEW MEXICO

PROPOSED EXCAVATION AND
SAMPLE LOCATION MAP

ARCADIS | **FIGURE 4**

Photographic Logs



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 1	Date: 08/10/2023		
Direction Photo Taken: 32.0588913,-104.0774612 Facing NE			
Description: S-4 area			



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 2	Date: 08/10/2023		
Direction Photo Taken: 32.0588913,-104.0774612 NW			
Description: Pit Area from S-9			



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 3	Date: 08/10/2023		
Direction Photo Taken: 32.0588913,-104.0774612 SE			
Description: Pit area looking towards tank battery from S-10			



PHOTOGRAPHIC LOG

Property Name: SRO SWD #104		Location: Eddy County, NM	Case No. NAB1627849311
Photo No. 4	Date: 08/10/2023		
Direction Photo Taken: 32.0588913,-104.0774612 NE			
Description: S-2 and S-3 area			

		PHOTOGRAPHIC LOG	
Property Name: SRO SWD #104		Location: Eddy County, NM	
Case No. NAB1627849311			
Photo No. 5	Date: 08/10/2023		
Direction Photo Taken: 32.0588913,-104.0774612 NE			
Description: Groundwater determination boring			

		PHOTOGRAPHIC LOG	
Property Name: SRO SWD #104		Location: Eddy County, NM	
Case No. NAB1627849311			
Photo No. 6	Date: 08/10/2023		
Direction Photo Taken: 32.0588913,-104.0774612 NE			
Description: Ground water determination boring plugged			

Appendix A

**Initial C-141 Form Incident # NAB1627849311
and Remediation Plan**

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

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

OCT 04 2016

Form C-141
Revised August 8, 2011

RECEIVED
Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company:	COG Operating LLC 229137	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	SRO SWD #104	Facility Type:	Flowline

Surface Owner:	State	Mineral Owner:	API No.	30-015-25864
----------------	-------	----------------	---------	--------------

LOCATION OF RELEASE

Unit Letter F	Section 10	Township 26S	Range 28E	Feet from the 1980'	North/South Line North	Feet from the 1980'	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	------------------------	---------------------------	------------------------	------------------------	----------------

Latitude 32.0588913 Longitude 104.0774612

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20bbbls	Volume Recovered: 8bbbls
Source of Release: Steel Flowline	Date and Hour of Occurrence: 10-02-2016 4:00 pm	Date and Hour of Discovery: 10-02-2016 4:00 pm
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A 3" steel flowline failed due to age and corrosion. Replaced the bad section with a new joint of 3" steel line.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture a 20X50 area. All free fluids were burnt up in the fire. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION	
Printed Name:	Signed By <u>Mike Brannan</u>	
Title:	Approved by Environmental Specialist:	
E-mail Address:	Approval Date: 10/4/16	Expiration Date: N/A
Date: October 4, 2016 Phone: 432-683-7443	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines ☐ SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 11/4/16	

* Attach Additional Sheets If Necessary

2RP-3925

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

Form C-141
Revised April 3, 2017
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: COG Operating, LLC (OGRID# 229137)	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.: 432-683-7443
Facility Name: SRO SWD #104	Facility Type: SWD
Surface Owner: State	Mineral Owner: State
API No.: 30-015-25864	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	10	26S	28E	1980	North	1980	West	Eddy

Latitude: 32.0588913 Longitude: -104.0774612 NAD83

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20bbls	Volume Recovered: 8bbls
Source of Release: Flowline	Date and Hour of Occurrence: 10-2-2016 4:00pm	Date and Hour of Discovery: 10-2-16 4:00pm
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
A 3" steel flowline failed due to corrosion. The damaged section of line was replaced.		
Describe Area Affected and Cleanup Action Taken.*		
The release occurred on a closed pit area adjacent to the location. The soil was left in situ and treated with Calcium and Magnesium amendments to prevent compromising the legacy pit area.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		

Signature: <i>Sheldon Hitchcock</i>	OIL CONSERVATION DIVISION Closure not approved. Brittany Hall 12/7/2022	
Printed Name: Sheldon L. Hitchcock		
Title: HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address: slhitchcock@concho.com	Conditions of Approval:	Attached ☐
Date: 4/26/2018	Phone: 575-746-2010	

* Attach Additional Sheets If Necessary

Incident ID	NAB1627849311
District RP	NA
Facility ID	NA
Application ID	NA

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?	<u>102</u> (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.

Incident ID	NAB1627849311
District RP	NA
Facility ID	NA
Application ID	NA

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 Tavaréz _____ Title: _____ Project Manager RM&R _____

Signature: Ike Tavaréz Date: 10/30/2023

email: Ike.Tavaréz@conocophillips.com Telephone: 432-701-8630

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1627849311
District RP	NA
Facility ID	NA
Application ID	NA

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: Ike Tavaraz Title: Project Manager RM&R

Signature: *Ike Tavaraz* Date: 10/30/2023

email: Ike.Tavaraz@conocophillips.com Telephone: 432-701-8630

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Appendix B

Laboratory Analytical Reports



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 8/24/2023 9:49:12 AM

JOB DESCRIPTION

SRO SWD #104
SDG NUMBER Eddy County, NM

JOB NUMBER

880-31967-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
8/24/2023 9:49:12 AM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Laboratory Job ID: 880-31967-1
SDG: Eddy County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	9
Surrogate Summary	39
QC Sample Results	42
QC Association Summary	53
Lab Chronicle	62
Certification Summary	75
Method Summary	76
Sample Summary	77
Chain of Custody	78
Receipt Checklists	82

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Case Narrative

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Job ID: 880-31967-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-31967-1****Receipt**

The samples were received on 8/11/2023 2:12 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 5.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-11-1' (880-31967-1), S-11-2' (880-31967-2), S-11-4' (880-31967-3), S-11-5' (880-31967-4), S-4-1' (880-31967-5), S-4-2' (880-31967-6), S-4-4' (880-31967-7), S-4-5' (880-31967-8), S-5-1' (880-31967-9), S-5-2' (880-31967-10), S-5-4' (880-31967-11), S-5-5' (880-31967-12), S-6-1' (880-31967-13), S-6-2' (880-31967-14), S-6-4' (880-31967-15), S-6-5' (880-31967-16), S-1-1' (880-31967-17), S-1-2' (880-31967-18), S-1-4' (880-31967-19), S-1-5' (880-31967-20), S-2-1' (880-31967-21), S-2-2' (880-31967-22), S-2-4' (880-31967-23), S-2-5' (880-31967-24), S-3-1' (880-31967-25), S-3-2' (880-31967-26), S-3-4' (880-31967-27), S-3-5' (880-31967-28), S-7-1' (880-31967-29), S-7-2' (880-31967-30), S-7-4' (880-31967-31), S-7-5' (880-31967-32), S-8-1' (880-31967-33), S-8-2' (880-31967-34), S-8-4' (880-31967-35), S-8-5' (880-31967-36), S-9-1' (880-31967-37), S-9-2' (880-31967-38), S-9-4' (880-31967-39), S-9-5' (880-31967-40), S-10-1' (880-31967-41), S-10-2' (880-31967-42), S-10-4' (880-31967-43) and S-10-5' (880-31967-44).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-60733/5-A) and (MB 880-60734/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-11-2' (880-31967-2), S-11-5' (880-31967-4) and S-4-1' (880-31967-5). 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: S-5-2' (880-31967-10), S-6-2' (880-31967-14) and S-1-1' (880-31967-17). 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: S-3-1' (880-31967-25), S-3-2' (880-31967-26) and S-7-2' (880-31967-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-60733 and analytical batch 880-60781 were outside control limits. Non-homogeneity is 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 880-60734 and analytical batch 880-60781 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-7-4' (880-31967-31), S-8-4' (880-31967-35) and S-8-5' (880-31967-36). 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: S-9-4' (880-31967-39) and S-9-5' (880-31967-40). 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

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60722 and analytical batch 880-60635 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-11-1' (880-31967-1), S-11-2' (880-31967-2), S-4-2' (880-31967-6), S-5-1' (880-31967-9), S-5-2' (880-31967-10), S-5-4' (880-31967-11), S-6-1' (880-31967-13), S-6-2' (880-31967-14), S-6-5' (880-31967-16), S-1-2' (880-31967-18), S-1-4' (880-31967-19), S-1-5' (880-31967-20), (880-31967-A-1-E MS) and

Case Narrative

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Job ID: 880-31967-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

(880-31967-A-1-F MSD). 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 880-60722 and analytical batch 880-60635 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-60722 and analytical batch 880-60635 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-60722 and analytical batch 880-60635 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-60635 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-60635/31).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60635/31), (CCV 880-60635/47) and (CCV 880-60635/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-2-5' (880-31967-24), S-3-1' (880-31967-25), S-3-2' (880-31967-26), S-3-4' (880-31967-27), S-3-5' (880-31967-28), S-7-1' (880-31967-29), S-7-2' (880-31967-30), S-7-4' (880-31967-31), S-8-4' (880-31967-35) and S-9-5' (880-31967-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60723 and analytical batch 880-60637 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60637/31), (CCV 880-60637/47) and (CCV 880-60637/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-60723 and analytical batch 880-60637 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-60723 and analytical batch 880-60637 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60816 and analytical batch 880-60778 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-10-5' (880-31967-44). 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: (CCV 880-60778/31) and (CCV 880-60778/47). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-60816 and analytical batch 880-60778 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.

Case Narrative

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Job ID: 880-31967-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59977 and 880-59977 and analytical batch 880-60062 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: S-10-1' (880-31967-41), S-10-2' (880-31967-42), S-10-4' (880-31967-43), S-10-5' (880-31967-44), (880-31965-A-5-A), (880-31965-A-5-B MS) and (880-31965-A-5-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59978 and 880-59978 and analytical batch 880-60063 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: S-2-1' (880-31967-21), S-2-2' (880-31967-22), S-2-4' (880-31967-23), S-2-5' (880-31967-24), S-3-1' (880-31967-25), S-3-2' (880-31967-26), S-3-4' (880-31967-27), S-3-5' (880-31967-28), S-7-1' (880-31967-29), S-7-2' (880-31967-30), (880-31967-A-21-B MS) and (880-31967-A-21-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59978 and analytical batch 880-60063 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: S-7-4' (880-31967-31), S-7-5' (880-31967-32), S-8-1' (880-31967-33), S-8-2' (880-31967-34), S-8-4' (880-31967-35), S-8-5' (880-31967-36), S-9-1' (880-31967-37), S-9-2' (880-31967-38), S-9-4' (880-31967-39), S-9-5' (880-31967-40), (CCV 880-60063/25), (880-31967-A-31-B MS) and (880-31967-A-31-C MSD).

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-1'

Lab Sample ID: 880-31967-1

Date Collected: 08/10/23 10:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U F1	0.00199	0.000383	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
Toluene	<0.000453	U F1	0.00199	0.000453	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
Ethylbenzene	<0.000562	U F1	0.00199	0.000562	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
m-Xylene & p-Xylene	<0.00100	U F1	0.00398	0.00100	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
o-Xylene	<0.000342	U F1	0.00199	0.000342	mg/Kg		08/21/23 12:48	08/22/23 17:11	1
Xylenes, Total	<0.00100	U F1	0.00398	0.00100	mg/Kg		08/21/23 12:48	08/22/23 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/21/23 12:48	08/22/23 17:11	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/21/23 12:48	08/22/23 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.4	15.1	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 20:19	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1 F1	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 20:19	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130	08/21/23 11:48	08/21/23 20:19	1
o-Terphenyl	122		70 - 130	08/21/23 11:48	08/21/23 20:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.95	0.391	mg/Kg			08/12/23 14:23	1

Client Sample ID: S-11-2'

Lab Sample ID: 880-31967-2

Date Collected: 08/10/23 10:10

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		08/21/23 12:48	08/22/23 17:37	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/21/23 12:48	08/22/23 17:37	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/21/23 12:48	08/22/23 17:37	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:48	08/22/23 17:37	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/21/23 12:48	08/22/23 17:37	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:48	08/22/23 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	08/21/23 12:48	08/22/23 17:37	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/21/23 12:48	08/22/23 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.2	15.1	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-2'

Lab Sample ID: 880-31967-2

Date Collected: 08/10/23 10:10

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.2	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:22	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.2	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.2	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	08/21/23 11:48	08/21/23 21:22	1
o-Terphenyl	129		70 - 130	08/21/23 11:48	08/21/23 21:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		4.98	0.393	mg/Kg			08/12/23 14:54	1

Client Sample ID: S-11-4'

Lab Sample ID: 880-31967-3

Date Collected: 08/10/23 10:20

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
Toluene	0.000966	J	0.00201	0.000459	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		08/21/23 12:48	08/22/23 18:02	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:48	08/22/23 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/21/23 12:48	08/22/23 18:02	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/21/23 12:48	08/22/23 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.5	15.1	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.5	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:43	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.5	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg		08/21/23 11:48	08/21/23 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/21/23 11:48	08/21/23 21:43	1
o-Terphenyl	104		70 - 130	08/21/23 11:48	08/21/23 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	801		4.99	0.394	mg/Kg			08/12/23 15:05	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-5'

Lab Sample ID: 880-31967-4

Date Collected: 08/10/23 10:30

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		08/21/23 12:48	08/22/23 18:28	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/21/23 12:48	08/22/23 18:28	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/21/23 12:48	08/22/23 18:28	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/22/23 18:28	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/21/23 12:48	08/22/23 18:28	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/22/23 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	08/21/23 12:48	08/22/23 18:28	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/21/23 12:48	08/22/23 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.5	15.2	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:48	08/21/23 22:05	1
Diesel Range Organics (Over C10-C28)	<15.2	U *1	50.5	15.2	mg/Kg		08/21/23 11:48	08/21/23 22:05	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:48	08/21/23 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	08/21/23 11:48	08/21/23 22:05	1
o-Terphenyl	115		70 - 130	08/21/23 11:48	08/21/23 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	453		4.97	0.393	mg/Kg			08/12/23 15:15	1

Client Sample ID: S-4-1'

Lab Sample ID: 880-31967-5

Date Collected: 08/10/23 11:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		08/21/23 12:48	08/22/23 18:54	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/21/23 12:48	08/22/23 18:54	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/21/23 12:48	08/22/23 18:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:48	08/22/23 18:54	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/21/23 12:48	08/22/23 18:54	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:48	08/22/23 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	08/21/23 12:48	08/22/23 18:54	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/21/23 12:48	08/22/23 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.7	14.9	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-4-1'

Lab Sample ID: 880-31967-5

Date Collected: 08/10/23 11:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:26	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.7	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:26	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				08/21/23 11:48	08/21/23 22:26	1
o-Terphenyl	103		70 - 130				08/21/23 11:48	08/21/23 22:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		5.02	0.397	mg/Kg			08/12/23 15:25	1

Client Sample ID: S-4-2'

Lab Sample ID: 880-31967-6

Date Collected: 08/10/23 11:08

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/22/23 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/21/23 12:48	08/22/23 19:19	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/21/23 12:48	08/22/23 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:47	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.8	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:47	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:48	08/21/23 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				08/21/23 11:48	08/21/23 22:47	1
o-Terphenyl	122		70 - 130				08/21/23 11:48	08/21/23 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	765		5.02	0.397	mg/Kg			08/12/23 15:57	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-4-4'

Lab Sample ID: 880-31967-7

Date Collected: 08/10/23 11:15

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		08/21/23 12:48	08/22/23 19:45	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		08/21/23 12:48	08/22/23 19:45	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		08/21/23 12:48	08/22/23 19:45	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:48	08/22/23 19:45	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:48	08/22/23 19:45	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:48	08/22/23 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/21/23 12:48	08/22/23 19:45	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/21/23 12:48	08/22/23 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.6	14.9	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:48	08/21/23 23:08	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.6	14.9	mg/Kg		08/21/23 11:48	08/21/23 23:08	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:48	08/21/23 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/21/23 11:48	08/21/23 23:08	1
o-Terphenyl	102		70 - 130	08/21/23 11:48	08/21/23 23:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	708		5.04	0.398	mg/Kg			08/12/23 16:07	1

Client Sample ID: S-4-5'

Lab Sample ID: 880-31967-8

Date Collected: 08/10/23 11:25

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		08/21/23 12:48	08/22/23 20:10	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		08/21/23 12:48	08/22/23 20:10	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		08/21/23 12:48	08/22/23 20:10	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		08/21/23 12:48	08/22/23 20:10	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:48	08/22/23 20:10	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		08/21/23 12:48	08/22/23 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/21/23 12:48	08/22/23 20:10	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/21/23 12:48	08/22/23 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.6	14.9	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-4-5'

Lab Sample ID: 880-31967-8

Date Collected: 08/10/23 11:25

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:48	08/21/23 23:29	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.6	14.9	mg/Kg		08/21/23 11:48	08/21/23 23:29	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:48	08/21/23 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				08/21/23 11:48	08/21/23 23:29	1
o-Terphenyl	105		70 - 130				08/21/23 11:48	08/21/23 23:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	989		4.99	0.394	mg/Kg			08/12/23 16:17	1

Client Sample ID: S-5-1'

Lab Sample ID: 880-31967-9

Date Collected: 08/10/23 11:40

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
Toluene	0.000632	J	0.00202	0.000460	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:48	08/22/23 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				08/21/23 12:48	08/22/23 20:36	1
1,4-Difluorobenzene (Surr)	81		70 - 130				08/21/23 12:48	08/22/23 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.4	15.1	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 23:50	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 23:50	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/21/23 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				08/21/23 11:48	08/21/23 23:50	1
o-Terphenyl	110		70 - 130				08/21/23 11:48	08/21/23 23:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.0		5.01	0.396	mg/Kg			08/12/23 16:28	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-5-2'

Lab Sample ID: 880-31967-10

Date Collected: 08/10/23 11:48

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg	-	08/21/23 12:48	08/22/23 21:02	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg	-	08/21/23 12:48	08/22/23 21:02	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg	-	08/21/23 12:48	08/22/23 21:02	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	-	08/21/23 12:48	08/22/23 21:02	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	-	08/21/23 12:48	08/22/23 21:02	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	-	08/21/23 12:48	08/22/23 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	08/21/23 12:48	08/22/23 21:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/21/23 12:48	08/22/23 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.5	15.2	mg/Kg	-		08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.2	U	50.5	15.2	mg/Kg	-	08/21/23 11:48	08/22/23 00:11	1
Diesel Range Organics (Over C10-C28)	<15.2	U *1	50.5	15.2	mg/Kg	-	08/21/23 11:48	08/22/23 00:11	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg	-	08/21/23 11:48	08/22/23 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	08/21/23 11:48	08/22/23 00:11	1
o-Terphenyl	111		70 - 130	08/21/23 11:48	08/22/23 00:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		5.00	0.395	mg/Kg	-		08/12/23 16:38	1

Client Sample ID: S-5-4'

Lab Sample ID: 880-31967-11

Date Collected: 08/10/23 11:53

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg	-	08/21/23 12:48	08/22/23 22:45	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg	-	08/21/23 12:48	08/22/23 22:45	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	08/21/23 12:48	08/22/23 22:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg	-	08/21/23 12:48	08/22/23 22:45	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	08/21/23 12:48	08/22/23 22:45	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	08/21/23 12:48	08/22/23 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	08/21/23 12:48	08/22/23 22:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/21/23 12:48	08/22/23 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.5	15.1	mg/Kg	-		08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-5-4'

Lab Sample ID: 880-31967-11

Date Collected: 08/10/23 11:53

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.5	15.1	mg/Kg		08/21/23 11:48	08/22/23 00:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.5	15.1	mg/Kg		08/21/23 11:48	08/22/23 00:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg		08/21/23 11:48	08/22/23 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				08/21/23 11:48	08/22/23 00:54	1
o-Terphenyl	111		70 - 130				08/21/23 11:48	08/22/23 00:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.3		5.00	0.395	mg/Kg			08/12/23 16:48	1

Client Sample ID: S-5-5'

Lab Sample ID: 880-31967-12

Date Collected: 08/10/23 12:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		08/21/23 12:48	08/22/23 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				08/21/23 12:48	08/22/23 23:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/21/23 12:48	08/22/23 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		08/21/23 11:48	08/22/23 01:15	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		08/21/23 11:48	08/22/23 01:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		08/21/23 11:48	08/22/23 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/21/23 11:48	08/22/23 01:15	1
o-Terphenyl	108		70 - 130				08/21/23 11:48	08/22/23 01:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		5.02	0.397	mg/Kg			08/12/23 17:20	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-6-1'

Lab Sample ID: 880-31967-13

Date Collected: 08/10/23 12:55

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:48	08/22/23 23:37	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:48	08/22/23 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/21/23 12:48	08/22/23 23:37	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/21/23 12:48	08/22/23 23:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.7	14.9	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:36	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.7	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:36	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	08/21/23 11:48	08/22/23 01:36	1
o-Terphenyl	111		70 - 130	08/21/23 11:48	08/22/23 01:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		4.98	0.393	mg/Kg			08/12/23 17:30	1

Client Sample ID: S-6-2'

Lab Sample ID: 880-31967-14

Date Collected: 08/10/23 13:08

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000512	J	0.00201	0.000387	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		08/21/23 12:48	08/23/23 00:02	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	08/21/23 12:48	08/23/23 00:02	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	08/21/23 12:48	08/23/23 00:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.2	J	49.6	14.9	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-6-2'

Lab Sample ID: 880-31967-14

Date Collected: 08/10/23 13:08

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.2	J B	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:57	1
Diesel Range Organics (Over C10-C28)	<14.9	U *1	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:57	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				08/21/23 11:48	08/22/23 01:57	1
o-Terphenyl	113		70 - 130				08/21/23 11:48	08/22/23 01:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.1		4.97	0.393	mg/Kg			08/12/23 18:01	1

Client Sample ID: S-6-4'

Lab Sample ID: 880-31967-15

Date Collected: 08/10/23 13:15

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/21/23 12:48	08/23/23 00:28	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/21/23 12:48	08/23/23 00:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.2	15.0	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.2	15.0	mg/Kg		08/21/23 11:48	08/22/23 02:19	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.2	15.0	mg/Kg		08/21/23 11:48	08/22/23 02:19	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg		08/21/23 11:48	08/22/23 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				08/21/23 11:48	08/22/23 02:19	1
o-Terphenyl	106		70 - 130				08/21/23 11:48	08/22/23 02:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		4.96	0.392	mg/Kg			08/12/23 18:11	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-6-5'

Lab Sample ID: 880-31967-16

Date Collected: 08/10/23 13:20

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/21/23 12:48	08/23/23 00:54	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:48	08/23/23 00:54	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:48	08/23/23 00:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:54	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:48	08/23/23 00:54	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:48	08/23/23 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/21/23 12:48	08/23/23 00:54	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/21/23 12:48	08/23/23 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.4	15.1	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/22/23 02:40	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.4	15.1	mg/Kg		08/21/23 11:48	08/22/23 02:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:48	08/22/23 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	08/21/23 11:48	08/22/23 02:40	1
o-Terphenyl	117		70 - 130	08/21/23 11:48	08/22/23 02:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		5.04	0.398	mg/Kg			08/12/23 18:22	1

Client Sample ID: S-1-1'

Lab Sample ID: 880-31967-17

Date Collected: 08/10/23 13:35

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/21/23 12:48	08/23/23 01:20	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:48	08/23/23 01:20	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:48	08/23/23 01:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/23/23 01:20	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:48	08/23/23 01:20	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:48	08/23/23 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	08/21/23 12:48	08/23/23 01:20	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/21/23 12:48	08/23/23 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.2	J	50.5	15.2	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-1-1'

Lab Sample ID: 880-31967-17

Date Collected: 08/10/23 13:35

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.0	J B	50.5	15.2	mg/Kg		08/21/23 11:48	08/22/23 03:01	1
Diesel Range Organics (Over C10-C28)	26.2	J B *1	50.5	15.2	mg/Kg		08/21/23 11:48	08/22/23 03:01	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:48	08/22/23 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	08/21/23 11:48	08/22/23 03:01	1
o-Terphenyl	110		70 - 130	08/21/23 11:48	08/22/23 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.4		5.05	0.399	mg/Kg			08/12/23 18:32	1

Client Sample ID: S-1-2'

Lab Sample ID: 880-31967-18

Date Collected: 08/10/23 13:40

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		08/21/23 12:48	08/23/23 01:45	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		08/21/23 12:48	08/23/23 01:45	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/21/23 12:48	08/23/23 01:45	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:48	08/23/23 01:45	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:48	08/23/23 01:45	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:48	08/23/23 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/21/23 12:48	08/23/23 01:45	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/21/23 12:48	08/23/23 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.1		49.8	14.9	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.8	J B	49.8	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:22	1
Diesel Range Organics (Over C10-C28)	35.3	J B *1	49.8	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:22	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	08/21/23 11:48	08/22/23 03:22	1
o-Terphenyl	117		70 - 130	08/21/23 11:48	08/22/23 03:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		5.03	0.397	mg/Kg			08/12/23 18:42	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-1-4'

Lab Sample ID: 880-31967-19

Date Collected: 08/10/23 13:50

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		08/21/23 12:48	08/23/23 02:11	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/21/23 12:48	08/23/23 02:11	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/21/23 12:48	08/23/23 02:11	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/23/23 02:11	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/21/23 12:48	08/23/23 02:11	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:48	08/23/23 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/21/23 12:48	08/23/23 02:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/21/23 12:48	08/23/23 02:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.3		49.6	14.9	mg/Kg			08/22/23 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.6	J B	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:44	1
Diesel Range Organics (Over C10-C28)	22.7	J B *1	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:44	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:48	08/22/23 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	08/21/23 11:48	08/22/23 03:44	1
o-Terphenyl	112		70 - 130	08/21/23 11:48	08/22/23 03:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		5.03	0.397	mg/Kg			08/12/23 18:53	1

Client Sample ID: S-1-5'

Lab Sample ID: 880-31967-20

Date Collected: 08/10/23 14:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		08/21/23 12:48	08/23/23 02:37	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		08/21/23 12:48	08/23/23 02:37	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		08/21/23 12:48	08/23/23 02:37	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:48	08/23/23 02:37	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		08/21/23 12:48	08/23/23 02:37	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:48	08/23/23 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/21/23 12:48	08/23/23 02:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/21/23 12:48	08/23/23 02:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.2	J	49.5	14.9	mg/Kg			08/22/23 12:14	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-1-5'

Lab Sample ID: 880-31967-20

Date Collected: 08/10/23 14:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.1	J B	49.5	14.9	mg/Kg		08/21/23 11:48	08/22/23 04:05	1
Diesel Range Organics (Over C10-C28)	20.1	J B *1	49.5	14.9	mg/Kg		08/21/23 11:48	08/22/23 04:05	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.5	14.9	mg/Kg		08/21/23 11:48	08/22/23 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	08/21/23 11:48	08/22/23 04:05	1
o-Terphenyl	113		70 - 130	08/21/23 11:48	08/22/23 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.03	0.397	mg/Kg			08/12/23 19:03	1

Client Sample ID: S-2-1'

Lab Sample ID: 880-31967-21

Date Collected: 08/10/23 14:25

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U F1	0.00199	0.000383	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
Toluene	<0.000454	U F1	0.00199	0.000454	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
Ethylbenzene	<0.000563	U F1	0.00199	0.000563	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
m-Xylene & p-Xylene	<0.00101	U F1	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
o-Xylene	<0.000343	U F1	0.00199	0.000343	mg/Kg		08/21/23 12:51	08/23/23 06:29	1
Xylenes, Total	<0.00101	U F1	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/21/23 12:51	08/23/23 06:29	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/21/23 12:51	08/23/23 06:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	48.1	J	50.1	15.0	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.3	J B F2	50.1	15.0	mg/Kg		08/21/23 11:51	08/21/23 20:19	1
Diesel Range Organics (Over C10-C28)	24.8	J B	50.1	15.0	mg/Kg		08/21/23 11:51	08/21/23 20:19	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		08/21/23 11:51	08/21/23 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	08/21/23 11:51	08/21/23 20:19	1
o-Terphenyl	120		70 - 130	08/21/23 11:51	08/21/23 20:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6390	F1	50.4	3.98	mg/Kg			08/13/23 15:47	10

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-2-2'

Lab Sample ID: 880-31967-22

Date Collected: 08/10/23 14:30

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:51	08/23/23 06:56	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:51	08/23/23 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/21/23 12:51	08/23/23 06:56	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/21/23 12:51	08/23/23 06:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.5	J	50.4	15.1	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.7	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 21:22	1
Diesel Range Organics (Over C10-C28)	20.8	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 21:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/21/23 11:51	08/21/23 21:22	1
o-Terphenyl	120		70 - 130	08/21/23 11:51	08/21/23 21:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3950		25.3	1.99	mg/Kg			08/13/23 16:18	5

Client Sample ID: S-2-4'

Lab Sample ID: 880-31967-23

Date Collected: 08/10/23 14:40

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		08/21/23 12:51	08/23/23 07:22	1
Toluene	0.000768	J	0.00200	0.000457	mg/Kg		08/21/23 12:51	08/23/23 07:22	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/21/23 12:51	08/23/23 07:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:51	08/23/23 07:22	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/21/23 12:51	08/23/23 07:22	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:51	08/23/23 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/21/23 12:51	08/23/23 07:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/21/23 12:51	08/23/23 07:22	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	50.5	15.2	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-2-4'

Lab Sample ID: 880-31967-23

Date Collected: 08/10/23 14:40

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.4	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 21:43	1
Diesel Range Organics (Over C10-C28)	19.5	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 21:43	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/21/23 11:51	08/21/23 21:43	1
o-Terphenyl	127		70 - 130	08/21/23 11:51	08/21/23 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2530		25.2	1.99	mg/Kg			08/13/23 16:29	5

Client Sample ID: S-2-5'

Lab Sample ID: 880-31967-24

Date Collected: 08/10/23 14:48

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		08/21/23 12:51	08/23/23 07:48	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/21/23 12:51	08/23/23 07:48	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/21/23 12:51	08/23/23 07:48	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:51	08/23/23 07:48	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/21/23 12:51	08/23/23 07:48	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:51	08/23/23 07:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/21/23 12:51	08/23/23 07:48	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/21/23 12:51	08/23/23 07:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	37.3	J	50.0	15.0	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.1	J B	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 22:05	1
Diesel Range Organics (Over C10-C28)	19.2	J B	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 22:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	229	S1+	70 - 130	08/21/23 11:51	08/21/23 22:05	1
o-Terphenyl	251	S1+	70 - 130	08/21/23 11:51	08/21/23 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210		25.0	1.97	mg/Kg			08/13/23 16:39	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-3-1'
Date Collected: 08/10/23 15:05
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-25
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		08/21/23 12:51	08/23/23 08:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				08/21/23 12:51	08/23/23 08:15	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/21/23 12:51	08/23/23 08:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.1		49.7	14.9	mg/Kg			08/22/23 14:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.2	J B	49.7	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:26	1
Diesel Range Organics (Over C10-C28)	20.9	J B	49.7	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:26	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	235	S1+	70 - 130				08/21/23 11:51	08/21/23 22:26	1
o-Terphenyl	257	S1+	70 - 130				08/21/23 11:51	08/21/23 22:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2180		49.7	3.93	mg/Kg			08/13/23 16:49	10

Client Sample ID: S-3-2'
Date Collected: 08/10/23 15:20
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-26
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000767	J	0.00199	0.000383	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		08/21/23 12:51	08/23/23 08:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				08/21/23 12:51	08/23/23 08:41	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130				08/21/23 12:51	08/23/23 08:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.0		49.6	14.9	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-3-2'

Lab Sample ID: 880-31967-26

Date Collected: 08/10/23 15:20

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.5	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:47	1
Diesel Range Organics (Over C10-C28)	20.5	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:47	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:51	08/21/23 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	216	S1+	70 - 130	08/21/23 11:51	08/21/23 22:47	1
o-Terphenyl	235	S1+	70 - 130	08/21/23 11:51	08/21/23 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3420		24.8	1.96	mg/Kg			08/13/23 17:21	5

Client Sample ID: S-3-4'

Lab Sample ID: 880-31967-27

Date Collected: 08/10/23 15:27

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:51	08/23/23 09:07	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 09:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/21/23 12:51	08/23/23 09:07	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/21/23 12:51	08/23/23 09:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.8	J	50.2	15.0	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.0	J B	50.2	15.0	mg/Kg		08/21/23 11:51	08/21/23 23:08	1
Diesel Range Organics (Over C10-C28)	20.8	J B	50.2	15.0	mg/Kg		08/21/23 11:51	08/21/23 23:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg		08/21/23 11:51	08/21/23 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	231	S1+	70 - 130	08/21/23 11:51	08/21/23 23:08	1
o-Terphenyl	254	S1+	70 - 130	08/21/23 11:51	08/21/23 23:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3840		24.8	1.96	mg/Kg			08/13/23 17:31	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-3-5'

Lab Sample ID: 880-31967-28

Date Collected: 08/10/23 15:35

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		08/21/23 12:51	08/23/23 09:33	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		08/21/23 12:51	08/23/23 09:33	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		08/21/23 12:51	08/23/23 09:33	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:51	08/23/23 09:33	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		08/21/23 12:51	08/23/23 09:33	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:51	08/23/23 09:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/21/23 12:51	08/23/23 09:33	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/21/23 12:51	08/23/23 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.2	J	50.4	15.1	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.1	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 23:29	1
Diesel Range Organics (Over C10-C28)	21.1	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 23:29	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:51	08/21/23 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	217	S1+	70 - 130	08/21/23 11:51	08/21/23 23:29	1
o-Terphenyl	237	S1+	70 - 130	08/21/23 11:51	08/21/23 23:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4090		25.1	1.98	mg/Kg			08/13/23 17:41	5

Client Sample ID: S-7-1'

Lab Sample ID: 880-31967-29

Date Collected: 08/10/23 16:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		08/21/23 12:51	08/23/23 09:59	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		08/21/23 12:51	08/23/23 09:59	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/21/23 12:51	08/23/23 09:59	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:51	08/23/23 09:59	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:51	08/23/23 09:59	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:51	08/23/23 09:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/21/23 12:51	08/23/23 09:59	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/21/23 12:51	08/23/23 09:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.9		50.5	15.2	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-1'

Lab Sample ID: 880-31967-29

Date Collected: 08/10/23 16:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.2	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 23:50	1
Diesel Range Organics (Over C10-C28)	26.7	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 23:50	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:51	08/21/23 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	222	S1+	70 - 130	08/21/23 11:51	08/21/23 23:50	1
o-Terphenyl	240	S1+	70 - 130	08/21/23 11:51	08/21/23 23:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8550		50.2	3.97	mg/Kg			08/13/23 17:52	10

Client Sample ID: S-7-2'

Lab Sample ID: 880-31967-30

Date Collected: 08/10/23 16:10

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		08/21/23 12:51	08/23/23 10:25	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		08/21/23 12:51	08/23/23 10:25	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		08/21/23 12:51	08/23/23 10:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:51	08/23/23 10:25	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		08/21/23 12:51	08/23/23 10:25	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		08/21/23 12:51	08/23/23 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	08/21/23 12:51	08/23/23 10:25	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/21/23 12:51	08/23/23 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.8		50.0	15.0	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.0	J B	50.0	15.0	mg/Kg		08/21/23 11:51	08/22/23 00:11	1
Diesel Range Organics (Over C10-C28)	24.8	J B	50.0	15.0	mg/Kg		08/21/23 11:51	08/22/23 00:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/21/23 11:51	08/22/23 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	227	S1+	70 - 130	08/21/23 11:51	08/22/23 00:11	1
o-Terphenyl	250	S1+	70 - 130	08/21/23 11:51	08/22/23 00:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6730		49.8	3.93	mg/Kg			08/13/23 18:02	10

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-4'

Lab Sample ID: 880-31967-31

Date Collected: 08/10/23 16:20

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:51	08/23/23 12:08	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	08/21/23 12:51	08/23/23 12:08	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/21/23 12:51	08/23/23 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.5	J	49.8	14.9	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 00:54	1
Diesel Range Organics (Over C10-C28)	22.5	J B	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 00:54	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	258	S1+	70 - 130	08/21/23 11:51	08/22/23 00:54	1
o-Terphenyl	278	S1+	70 - 130	08/21/23 11:51	08/22/23 00:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7740	F1	49.5	3.91	mg/Kg			08/13/23 18:13	10

Client Sample ID: S-7-5'

Lab Sample ID: 880-31967-32

Date Collected: 08/10/23 16:27

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/21/23 12:51	08/23/23 12:34	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:51	08/23/23 12:34	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:51	08/23/23 12:34	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:51	08/23/23 12:34	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:51	08/23/23 12:34	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:51	08/23/23 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/21/23 12:51	08/23/23 12:34	1
1,4-Difluorobenzene (Surr)	85		70 - 130	08/21/23 12:51	08/23/23 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	41.7	J	49.6	14.9	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-5'

Lab Sample ID: 880-31967-32

Date Collected: 08/10/23 16:27

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.3	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 01:15	1
Diesel Range Organics (Over C10-C28)	21.4	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 01:15	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	08/21/23 11:51	08/22/23 01:15	1
o-Terphenyl	121		70 - 130	08/21/23 11:51	08/22/23 01:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7870		50.3	3.97	mg/Kg			08/13/23 18:44	10

Client Sample ID: S-8-1'

Lab Sample ID: 880-31967-33

Date Collected: 08/11/23 08:30

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/21/23 12:51	08/23/23 13:00	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:51	08/23/23 13:00	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:51	08/23/23 13:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 13:00	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:51	08/23/23 13:00	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/21/23 12:51	08/23/23 13:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/21/23 12:51	08/23/23 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.5		49.9	15.0	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.9	J B	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 01:36	1
Diesel Range Organics (Over C10-C28)	23.6	J B	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 01:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	08/21/23 11:51	08/22/23 01:36	1
o-Terphenyl	129		70 - 130	08/21/23 11:51	08/22/23 01:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7300		50.2	3.97	mg/Kg			08/13/23 18:54	10

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-8-2'

Lab Sample ID: 880-31967-34

Date Collected: 08/11/23 09:40

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		08/21/23 12:51	08/23/23 13:26	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		08/21/23 12:51	08/23/23 13:26	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		08/21/23 12:51	08/23/23 13:26	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:51	08/23/23 13:26	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		08/21/23 12:51	08/23/23 13:26	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		08/21/23 12:51	08/23/23 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/21/23 12:51	08/23/23 13:26	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/21/23 12:51	08/23/23 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.4	J	50.4	15.1	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.8	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/22/23 01:57	1
Diesel Range Organics (Over C10-C28)	21.6	J B	50.4	15.1	mg/Kg		08/21/23 11:51	08/22/23 01:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/21/23 11:51	08/22/23 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/21/23 11:51	08/22/23 01:57	1
o-Terphenyl	128		70 - 130	08/21/23 11:51	08/22/23 01:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5820		50.2	3.97	mg/Kg			08/13/23 19:25	10

Client Sample ID: S-8-4'

Lab Sample ID: 880-31967-35

Date Collected: 08/11/23 09:48

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		08/21/23 12:51	08/23/23 13:51	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		08/21/23 12:51	08/23/23 13:51	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		08/21/23 12:51	08/23/23 13:51	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:51	08/23/23 13:51	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		08/21/23 12:51	08/23/23 13:51	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		08/21/23 12:51	08/23/23 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	08/21/23 12:51	08/23/23 13:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/21/23 12:51	08/23/23 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.3	J	50.5	15.2	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-8-4'

Lab Sample ID: 880-31967-35

Date Collected: 08/11/23 09:48

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.8	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/22/23 02:19	1
Diesel Range Organics (Over C10-C28)	20.5	J B	50.5	15.2	mg/Kg		08/21/23 11:51	08/22/23 02:19	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		08/21/23 11:51	08/22/23 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/21/23 11:51	08/22/23 02:19	1
o-Terphenyl	131	S1+	70 - 130	08/21/23 11:51	08/22/23 02:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4920		24.9	1.97	mg/Kg			08/13/23 19:35	5

Client Sample ID: S-8-5'

Lab Sample ID: 880-31967-36

Date Collected: 08/11/23 10:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		08/21/23 12:51	08/23/23 14:17	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		08/21/23 12:51	08/23/23 14:17	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		08/21/23 12:51	08/23/23 14:17	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:51	08/23/23 14:17	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:51	08/23/23 14:17	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		08/21/23 12:51	08/23/23 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	08/21/23 12:51	08/23/23 14:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/21/23 12:51	08/23/23 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.6		49.7	14.9	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.8	J B	49.7	14.9	mg/Kg		08/21/23 11:51	08/22/23 02:40	1
Diesel Range Organics (Over C10-C28)	19.8	J B	49.7	14.9	mg/Kg		08/21/23 11:51	08/22/23 02:40	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		08/21/23 11:51	08/22/23 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	08/21/23 11:51	08/22/23 02:40	1
o-Terphenyl	129		70 - 130	08/21/23 11:51	08/22/23 02:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4350		24.9	1.96	mg/Kg			08/13/23 19:46	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-9-1'

Lab Sample ID: 880-31967-37

Date Collected: 08/11/23 10:15

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		08/21/23 12:51	08/23/23 14:43	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/21/23 12:51	08/23/23 14:43	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/21/23 12:51	08/23/23 14:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:51	08/23/23 14:43	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/21/23 12:51	08/23/23 14:43	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/21/23 12:51	08/23/23 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/21/23 12:51	08/23/23 14:43	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/21/23 12:51	08/23/23 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	130		49.8	14.9	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.6	J B	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:01	1
Diesel Range Organics (Over C10-C28)	95.0	B	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:01	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	08/21/23 11:51	08/22/23 03:01	1
o-Terphenyl	125		70 - 130	08/21/23 11:51	08/22/23 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7500		101	7.96	mg/Kg			08/13/23 19:56	20

Client Sample ID: S-9-2'

Lab Sample ID: 880-31967-38

Date Collected: 08/11/23 10:21

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		08/21/23 12:51	08/23/23 15:09	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		08/21/23 12:51	08/23/23 15:09	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		08/21/23 12:51	08/23/23 15:09	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 15:09	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		08/21/23 12:51	08/23/23 15:09	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		08/21/23 12:51	08/23/23 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/21/23 12:51	08/23/23 15:09	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/21/23 12:51	08/23/23 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.5		49.9	15.0	mg/Kg			08/22/23 14:01	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-9-2'

Lab Sample ID: 880-31967-38

Date Collected: 08/11/23 10:21

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.7	J B	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 03:22	1
Diesel Range Organics (Over C10-C28)	29.8	J B	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 03:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		08/21/23 11:51	08/22/23 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	08/21/23 11:51	08/22/23 03:22	1
o-Terphenyl	129		70 - 130	08/21/23 11:51	08/22/23 03:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5740		50.5	3.99	mg/Kg			08/13/23 20:06	10

Client Sample ID: S-9-4'

Lab Sample ID: 880-31967-39

Date Collected: 08/11/23 10:30

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		08/21/23 12:51	08/23/23 15:35	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		08/21/23 12:51	08/23/23 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	08/21/23 12:51	08/23/23 15:35	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/21/23 12:51	08/23/23 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.4		49.6	14.9	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.9	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:44	1
Diesel Range Organics (Over C10-C28)	23.5	J B	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:44	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		08/21/23 11:51	08/22/23 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/21/23 11:51	08/22/23 03:44	1
o-Terphenyl	127		70 - 130	08/21/23 11:51	08/22/23 03:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4330		50.0	3.95	mg/Kg			08/13/23 20:17	10

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-9-5'

Lab Sample ID: 880-31967-40

Date Collected: 08/11/23 10:38

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/21/23 12:51	08/23/23 16:01	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		08/21/23 12:51	08/23/23 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	08/21/23 12:51	08/23/23 16:01	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/21/23 12:51	08/23/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.3	J	49.5	14.9	mg/Kg			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.5	14.9	mg/Kg		08/21/23 11:51	08/22/23 04:05	1
Diesel Range Organics (Over C10-C28)	19.3	J B	49.5	14.9	mg/Kg		08/21/23 11:51	08/22/23 04:05	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.5	14.9	mg/Kg		08/21/23 11:51	08/22/23 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	08/21/23 11:51	08/22/23 04:05	1
o-Terphenyl	140	S1+	70 - 130	08/21/23 11:51	08/22/23 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3390		25.0	1.98	mg/Kg			08/13/23 20:27	5

Client Sample ID: S-10-1'

Lab Sample ID: 880-31967-41

Date Collected: 08/11/23 11:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/22/23 13:09	08/23/23 06:26	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/22/23 13:09	08/23/23 06:26	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/22/23 13:09	08/23/23 06:26	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/22/23 13:09	08/23/23 06:26	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/22/23 13:09	08/23/23 06:26	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/22/23 13:09	08/23/23 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	08/22/23 13:09	08/23/23 06:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/22/23 13:09	08/23/23 06:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.4		50.3	15.1	mg/Kg			08/23/23 11:48	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-10-1'

Lab Sample ID: 880-31967-41

Date Collected: 08/11/23 11:00

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.2	J B	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 21:00	1
Diesel Range Organics (Over C10-C28)	51.2		50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 21:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/22/23 11:41	08/22/23 21:00	1
o-Terphenyl	119		70 - 130	08/22/23 11:41	08/22/23 21:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6180		100	7.90	mg/Kg			08/13/23 12:30	20

Client Sample ID: S-10-2'

Lab Sample ID: 880-31967-42

Date Collected: 08/11/23 11:10

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		08/22/23 13:09	08/23/23 06:46	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		08/22/23 13:09	08/23/23 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/22/23 13:09	08/23/23 06:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/22/23 13:09	08/23/23 06:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.9		50.3	15.1	mg/Kg			08/23/23 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	41.0	J B	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:06	1
Diesel Range Organics (Over C10-C28)	30.9	J	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	08/22/23 11:41	08/22/23 22:06	1
o-Terphenyl	124		70 - 130	08/22/23 11:41	08/22/23 22:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3990		25.0	1.98	mg/Kg			08/13/23 12:40	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-10-4'

Lab Sample ID: 880-31967-43

Date Collected: 08/11/23 11:21

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		08/22/23 13:09	08/23/23 07:07	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		08/22/23 13:09	08/23/23 07:07	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		08/22/23 13:09	08/23/23 07:07	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		08/22/23 13:09	08/23/23 07:07	1
o-Xylene	0.000509	J	0.00201	0.000346	mg/Kg		08/22/23 13:09	08/23/23 07:07	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		08/22/23 13:09	08/23/23 07:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/22/23 13:09	08/23/23 07:07	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/22/23 13:09	08/23/23 07:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.8		50.1	15.0	mg/Kg			08/23/23 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.5	J B	50.1	15.0	mg/Kg		08/22/23 11:41	08/22/23 22:27	1
Diesel Range Organics (Over C10-C28)	29.3	J	50.1	15.0	mg/Kg		08/22/23 11:41	08/22/23 22:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		08/22/23 11:41	08/22/23 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/22/23 11:41	08/22/23 22:27	1
o-Terphenyl	129		70 - 130	08/22/23 11:41	08/22/23 22:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3330		25.1	1.98	mg/Kg			08/13/23 12:51	5

Client Sample ID: S-10-5'

Lab Sample ID: 880-31967-44

Date Collected: 08/11/23 11:29

Matrix: Solid

Date Received: 08/11/23 14:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		08/22/23 13:09	08/23/23 07:27	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/22/23 13:09	08/23/23 07:27	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/22/23 13:09	08/23/23 07:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/22/23 13:09	08/23/23 07:27	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/22/23 13:09	08/23/23 07:27	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/22/23 13:09	08/23/23 07:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/22/23 13:09	08/23/23 07:27	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/22/23 13:09	08/23/23 07:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.7		50.4	15.1	mg/Kg			08/23/23 11:48	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-10-5'
Date Collected: 08/11/23 11:29
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-44
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	36.3	J B	50.4	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:49	1	
Diesel Range Organics (Over C10-C28)	26.4	J	50.4	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:49	1	
Oll Range Organics (Over C28-C36)	<15.1	U	50.4	15.1	mg/Kg		08/22/23 11:41	08/22/23 22:49	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	130		70 - 130				08/22/23 11:41	08/22/23 22:49	1	
o-Terphenyl	139	S1+	70 - 130				08/22/23 11:41	08/22/23 22:49	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3350		25.3	1.99	mg/Kg			08/13/23 13:01	5	

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-31967-1	S-11-1'	115	96
880-31967-1 MS	S-11-1'	113	110
880-31967-1 MSD	S-11-1'	120	100
880-31967-2	S-11-2'	132 S1+	107
880-31967-3	S-11-4'	128	109
880-31967-4	S-11-5'	147 S1+	111
880-31967-5	S-4-1'	142 S1+	107
880-31967-6	S-4-2'	108	93
880-31967-7	S-4-4'	123	103
880-31967-8	S-4-5'	116	86
880-31967-9	S-5-1'	119	81
880-31967-10	S-5-2'	136 S1+	96
880-31967-11	S-5-4'	129	95
880-31967-12	S-5-5'	127	103
880-31967-13	S-6-1'	120	90
880-31967-14	S-6-2'	153 S1+	134 S1+
880-31967-15	S-6-4'	120	95
880-31967-16	S-6-5'	118	95
880-31967-17	S-1-1'	145 S1+	78
880-31967-18	S-1-2'	122	86
880-31967-19	S-1-4'	116	100
880-31967-20	S-1-5'	117	97
880-31967-21	S-2-1'	101	78
880-31967-21 MS	S-2-1'	120	89
880-31967-21 MSD	S-2-1'	122	96
880-31967-22	S-2-2'	124	92
880-31967-23	S-2-4'	128	91
880-31967-24	S-2-5'	130	94
880-31967-25	S-3-1'	146 S1+	109
880-31967-26	S-3-2'	77	64 S1-
880-31967-27	S-3-4'	123	81
880-31967-28	S-3-5'	124	95
880-31967-29	S-7-1'	123	99
880-31967-30	S-7-2'	136 S1+	90
880-31967-31	S-7-4'	64 S1-	88
880-31967-32	S-7-5'	109	85
880-31967-33	S-8-1'	128	97
880-31967-34	S-8-2'	124	98
880-31967-35	S-8-4'	147 S1+	98
880-31967-36	S-8-5'	132 S1+	98
880-31967-37	S-9-1'	130	102
880-31967-38	S-9-2'	130	94
880-31967-39	S-9-4'	132 S1+	103
880-31967-40	S-9-5'	133 S1+	78
880-31967-41	S-10-1'	89	93
880-31967-42	S-10-2'	96	90
880-31967-43	S-10-4'	100	91
880-31967-44	S-10-5'	99	97
LCS 880-60733/1-A	Lab Control Sample	114	91

Eurofins Midland

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-60734/1-A	Lab Control Sample	103	93
LCS 880-60818/1-A	Lab Control Sample	87	95
LCSD 880-60733/2-A	Lab Control Sample Dup	101	95
LCSD 880-60734/2-A	Lab Control Sample Dup	111	95
LCSD 880-60818/2-A	Lab Control Sample Dup	99	86
MB 880-60732/5-A	Method Blank	99	119
MB 880-60733/5-A	Method Blank	67 S1-	99
MB 880-60734/5-A	Method Blank	61 S1-	81
MB 880-60818/5-A	Method Blank	102	107
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31967-1	S-11-1'	141 S1+	122
880-31967-1 MS	S-11-1'	141 S1+	111
880-31967-1 MSD	S-11-1'	156 S1+	124
880-31967-2	S-11-2'	148 S1+	129
880-31967-3	S-11-4'	120	104
880-31967-4	S-11-5'	130	115
880-31967-5	S-4-1'	124	103
880-31967-6	S-4-2'	138 S1+	122
880-31967-7	S-4-4'	120	102
880-31967-8	S-4-5'	128	105
880-31967-9	S-5-1'	137 S1+	110
880-31967-10	S-5-2'	133 S1+	111
880-31967-11	S-5-4'	133 S1+	111
880-31967-12	S-5-5'	130	108
880-31967-13	S-6-1'	133 S1+	111
880-31967-14	S-6-2'	133 S1+	113
880-31967-15	S-6-4'	128	106
880-31967-16	S-6-5'	145 S1+	117
880-31967-17	S-1-1'	126	110
880-31967-18	S-1-2'	135 S1+	117
880-31967-19	S-1-4'	132 S1+	112
880-31967-20	S-1-5'	132 S1+	113
880-31967-21	S-2-1'	109	120
880-31967-21 MS	S-2-1'	108	108
880-31967-21 MSD	S-2-1'	102	101
880-31967-22	S-2-2'	110	120
880-31967-23	S-2-4'	116	127
880-31967-24	S-2-5'	229 S1+	251 S1+
880-31967-25	S-3-1'	235 S1+	257 S1+
880-31967-26	S-3-2'	216 S1+	235 S1+
880-31967-27	S-3-4'	231 S1+	254 S1+

Eurofins Midland

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31967-28	S-3-5'	217 S1+	237 S1+
880-31967-29	S-7-1'	222 S1+	240 S1+
880-31967-30	S-7-2'	227 S1+	250 S1+
880-31967-31	S-7-4'	258 S1+	278 S1+
880-31967-32	S-7-5'	111	121
880-31967-33	S-8-1'	118	129
880-31967-34	S-8-2'	116	128
880-31967-35	S-8-4'	120	131 S1+
880-31967-36	S-8-5'	118	129
880-31967-37	S-9-1'	115	125
880-31967-38	S-9-2'	117	129
880-31967-39	S-9-4'	116	127
880-31967-40	S-9-5'	130	140 S1+
880-31967-41	S-10-1'	110	119
880-31967-41 MS	S-10-1'	106	105
880-31967-41 MSD	S-10-1'	103	102
880-31967-42	S-10-2'	113	124
880-31967-43	S-10-4'	120	129
880-31967-44	S-10-5'	130	139 S1+
LCS 880-60722/2-A	Lab Control Sample	126	112
LCS 880-60723/2-A	Lab Control Sample	89	102
LCS 880-60816/2-A	Lab Control Sample	94	107
LCSD 880-60722/3-A	Lab Control Sample Dup	117	104
LCSD 880-60723/3-A	Lab Control Sample Dup	111	128
LCSD 880-60816/3-A	Lab Control Sample Dup	114	129
MB 880-60722/1-A	Method Blank	178 S1+	165 S1+
MB 880-60723/1-A	Method Blank	137 S1+	154 S1+
MB 880-60816/1-A	Method Blank	146 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60732/5-A
Matrix: Solid
Analysis Batch: 60782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:45	08/22/23 16:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/21/23 12:45	08/22/23 16:38	1
1,4-Difluorobenzene (Surr)	119		70 - 130				08/21/23 12:45	08/22/23 16:38	1

Lab Sample ID: MB 880-60733/5-A
Matrix: Solid
Analysis Batch: 60781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:48	08/22/23 16:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130				08/21/23 12:48	08/22/23 16:46	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/21/23 12:48	08/22/23 16:46	1

Lab Sample ID: LCS 880-60733/1-A
Matrix: Solid
Analysis Batch: 60781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08433		mg/Kg		84	70 - 130
Toluene	0.100	0.09644		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09282		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1951		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09354		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	114		70 - 130				
1,4-Difluorobenzene (Surr)	91		70 - 130				

Lab Sample ID: LCSD 880-60733/2-A
Matrix: Solid
Analysis Batch: 60781

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08066		mg/Kg		81	70 - 130	4	35

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-60733/2-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.07950		mg/Kg		79	70 - 130	19		35
Ethylbenzene	0.100	0.08875		mg/Kg		89	70 - 130	4		35
m-Xylene & p-Xylene	0.200	0.1786		mg/Kg		89	70 - 130	9		35
o-Xylene	0.100	0.08342		mg/Kg		83	70 - 130	11		35

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

Lab Sample ID: 880-31967-1 MS

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-11-1'

Prep Type: Total/NA

Prep Batch: 60733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.000383	U F1	0.0996	0.05894	F1	mg/Kg		59	70 - 130	
Toluene	<0.000453	U F1	0.0996	0.06113	F1	mg/Kg		61	70 - 130	
Ethylbenzene	<0.000562	U F1	0.0996	0.06349	F1	mg/Kg		64	70 - 130	
m-Xylene & p-Xylene	<0.00100	U F1	0.199	0.1264	F1	mg/Kg		63	70 - 130	
o-Xylene	<0.000342	U F1	0.0996	0.06191	F1	mg/Kg		62	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-31967-1 MSD

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-11-1'

Prep Type: Total/NA

Prep Batch: 60733

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.000383	U F1	0.101	0.07341		mg/Kg		73	70 - 130	22		35
Toluene	<0.000453	U F1	0.101	0.07975		mg/Kg		79	70 - 130	26		35
Ethylbenzene	<0.000562	U F1	0.101	0.07347		mg/Kg		73	70 - 130	15		35
m-Xylene & p-Xylene	<0.00100	U F1	0.202	0.1460		mg/Kg		72	70 - 130	14		35
o-Xylene	<0.000342	U F1	0.101	0.07758		mg/Kg		77	70 - 130	22		35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-60734/5-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60734

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:51	08/23/23 06:03	1

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-60734/5-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60734

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/21/23 12:51	08/23/23 06:03	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130				08/21/23 12:51	08/23/23 06:03	1
1,4-Difluorobenzene (Surr)	81		70 - 130				08/21/23 12:51	08/23/23 06:03	1

Lab Sample ID: LCS 880-60734/1-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60734

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Benzene			0.100	0.08402		mg/Kg		84	70 - 130		
Toluene			0.100	0.09828		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.09296		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1881		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09688		mg/Kg		97	70 - 130		

Lab Sample ID: LCSD 880-60734/2-A

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60734

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09146		mg/Kg		91	70 - 130	8	35
Toluene			0.100	0.09133		mg/Kg		91	70 - 130	7	35
Ethylbenzene			0.100	0.09612		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1815		mg/Kg		91	70 - 130	4	35
o-Xylene			0.100	0.08945		mg/Kg		89	70 - 130	8	35
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	111		70 - 130								
1,4-Difluorobenzene (Surr)	95		70 - 130								

Lab Sample ID: 880-31967-21 MS

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-2-1'

Prep Type: Total/NA

Prep Batch: 60734

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.000383	U F1	0.0996	0.04745	F1	mg/Kg		48	70 - 130
Toluene	<0.000454	U F1	0.0996	0.04950	F1	mg/Kg		50	70 - 130
Ethylbenzene	<0.000563	U F1	0.0996	0.04917	F1	mg/Kg		49	70 - 130
m-Xylene & p-Xylene	<0.00101	U F1	0.199	0.09087	F1	mg/Kg		46	70 - 130
o-Xylene	<0.000343	U F1	0.0996	0.04975	F1	mg/Kg		50	70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-31967-21 MS

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-2-1'

Prep Type: Total/NA

Prep Batch: 60734

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-31967-21 MSD

Matrix: Solid

Analysis Batch: 60781

Client Sample ID: S-2-1'

Prep Type: Total/NA

Prep Batch: 60734

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U F1	0.101	0.05176	F1	mg/Kg		51	70 - 130	9	35
Toluene	<0.000454	U F1	0.101	0.05191	F1	mg/Kg		51	70 - 130	5	35
Ethylbenzene	<0.000563	U F1	0.101	0.04745	F1	mg/Kg		47	70 - 130	4	35
m-Xylene & p-Xylene	<0.00101	U F1	0.202	0.1021	F1	mg/Kg		51	70 - 130	12	35
o-Xylene	<0.000343	U F1	0.101	0.05165	F1	mg/Kg		51	70 - 130	4	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-60818/5-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/22/23 13:09	08/23/23 04:15	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/22/23 13:09	08/23/23 04:15	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	102		70 - 130	08/22/23 13:09	08/23/23 04:15	1			
1,4-Difluorobenzene (Surr)	107		70 - 130	08/22/23 13:09	08/23/23 04:15	1			

Lab Sample ID: LCS 880-60818/1-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09278		mg/Kg		93	70 - 130
Toluene	0.100	0.09141		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09066		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1692		mg/Kg		85	70 - 130
o-Xylene	0.100	0.07807		mg/Kg		78	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-60818/1-A
Matrix: Solid
Analysis Batch: 60782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60818

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

Lab Sample ID: LCSD 880-60818/2-A
Matrix: Solid
Analysis Batch: 60782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60818

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08368		mg/Kg		84	70 - 130	10	35
Toluene	0.100	0.08323		mg/Kg		83	70 - 130	9	35
Ethylbenzene	0.100	0.07555		mg/Kg		76	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.1427		mg/Kg		71	70 - 130	17	35
o-Xylene	0.100	0.07783		mg/Kg		78	70 - 130	0	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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

Lab Sample ID: MB 880-60722/1-A
Matrix: Solid
Analysis Batch: 60635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.74	J	50.0	15.0	mg/Kg		08/21/23 11:48	08/21/23 19:14	1
Diesel Range Organics (Over C10-C28)	15.25	J	50.0	15.0	mg/Kg		08/21/23 11:48	08/21/23 19:14	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/21/23 11:48	08/21/23 19:14	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	178	S1+	70 - 130	08/21/23 11:48	08/21/23 19:14	1			
o-Terphenyl	165	S1+	70 - 130	08/21/23 11:48	08/21/23 19:14	1			

Lab Sample ID: LCS 880-60722/2-A
Matrix: Solid
Analysis Batch: 60635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1083		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1065		mg/Kg		106	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	112		70 - 130

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-60722/3-A

Matrix: Solid

Analysis Batch: 60635

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	935.9		mg/Kg		94	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	1000	866.3	*1	mg/Kg		87	70 - 130	21	20
		LCSD %Recovery	LCSD Qualifier						
Surrogate									
1-Chlorooctane		117							
o-Terphenyl		104							

Lab Sample ID: 880-31967-1 MS

Matrix: Solid

Analysis Batch: 60635

Client Sample ID: S-11-1'

Prep Type: Total/NA

Prep Batch: 60722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.1	U	997	877.7		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U *1 F1	997	1231		mg/Kg		123	70 - 130		
		MS %Recovery	MS Qualifier								
Surrogate											
1-Chlorooctane		141	S1+								
o-Terphenyl		111									

Lab Sample ID: 880-31967-1 MSD

Matrix: Solid

Analysis Batch: 60635

Client Sample ID: S-11-1'

Prep Type: Total/NA

Prep Batch: 60722

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	<15.1	U	997	967.0		mg/Kg		97	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<15.1	U *1 F1	997	1353	F1	mg/Kg		136	70 - 130	9	20
		MSD %Recovery	MSD Qualifier								
Surrogate											
1-Chlorooctane		156	S1+								
o-Terphenyl		124									

Lab Sample ID: MB 880-60723/1-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60723

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.39	J	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 19:14	1
Diesel Range Organics (Over C10-C28)	18.29	J	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 19:14	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/21/23 11:51	08/21/23 19:14	1

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-60723/1-A
Matrix: Solid
Analysis Batch: 60637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60723

Surrogate	MB MB		Limits	Prepared		Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	137	S1+	70 - 130	08/21/23 11:51	08/21/23 19:14	1
o-Terphenyl	154	S1+	70 - 130	08/21/23 11:51	08/21/23 19:14	1

Lab Sample ID: LCS 880-60723/2-A
Matrix: Solid
Analysis Batch: 60637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1017		mg/Kg		102	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	901.1		mg/Kg		90	70 - 130	
Surrogate	LCS LCS		Limits					
	%Recovery	Qualifier						
1-Chlorooctane	89		70 - 130					
o-Terphenyl	102		70 - 130					

Lab Sample ID: LCSD 880-60723/3-A
Matrix: Solid
Analysis Batch: 60637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60723

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	1030		mg/Kg		103	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	1000	959.0		mg/Kg		96	70 - 130	6	20	
Surrogate	LCSD LCSD		Limits							
	%Recovery	Qualifier								
1-Chlorooctane	111		70 - 130							
o-Terphenyl	128		70 - 130							

Lab Sample ID: 880-31967-21 MS
Matrix: Solid
Analysis Batch: 60637

Client Sample ID: S-2-1'
Prep Type: Total/NA
Prep Batch: 60723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Gasoline Range Organics (GRO)-C6-C10	23.3	J B F2	996	800.0		mg/Kg		78	70 - 130	
Diesel Range Organics (Over C10-C28)	24.8	J B	996	964.5		mg/Kg		94	70 - 130	
Surrogate	MS MS		Limits							
	%Recovery	Qualifier								
1-Chlorooctane	108		70 - 130							
o-Terphenyl	108		70 - 130							

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-31967-21 MSD

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: S-2-1'

Prep Type: Total/NA

Prep Batch: 60723

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	23.3	J B F2	996	1165	F2	mg/Kg		115	70 - 130	37	20
Diesel Range Organics (Over C10-C28)	24.8	J B	996	894.7		mg/Kg		87	70 - 130	8	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: MB 880-60816/1-A

Matrix: Solid

Analysis Batch: 60778

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60816

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	17.33	J	50.0	15.0	mg/Kg		08/22/23 11:40	08/22/23 19:54	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		08/22/23 11:40	08/22/23 19:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/22/23 11:40	08/22/23 19:54	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	146	S1+	70 - 130				08/22/23 11:40	08/22/23 19:54	1
o-Terphenyl	163	S1+	70 - 130				08/22/23 11:40	08/22/23 19:54	1

Lab Sample ID: LCS 880-60816/2-A

Matrix: Solid

Analysis Batch: 60778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1077		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	937.8		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	94		70 - 130				
o-Terphenyl	107		70 - 130				

Lab Sample ID: LCSD 880-60816/3-A

Matrix: Solid

Analysis Batch: 60778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60816

Analyte	Spike Added	LCS	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
								Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	1000		1053		mg/Kg		105	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000		956.7		mg/Kg		96	70 - 130	2	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-60816/3-A
Matrix: Solid
Analysis Batch: 60778

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60816

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 880-31967-41 MS
Matrix: Solid
Analysis Batch: 60778

Client Sample ID: S-10-1'
Prep Type: Total/NA
Prep Batch: 60816

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	24.2	J B	999	1238		mg/Kg		121	70 - 130	
Diesel Range Organics (Over C10-C28)	51.2		999	978.0		mg/Kg		93	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	106		70 - 130							
o-Terphenyl	105		70 - 130							

Lab Sample ID: 880-31967-41 MSD
Matrix: Solid
Analysis Batch: 60778

Client Sample ID: S-10-1'
Prep Type: Total/NA
Prep Batch: 60816

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	24.2	J B	999	1226		mg/Kg		120	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	51.2		999	935.3		mg/Kg		88	70 - 130	4	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	103		70 - 130									
o-Terphenyl	102		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59980/1-A
Matrix: Solid
Analysis Batch: 60059

Client Sample ID: Method Blank
Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/12/23 13:52	1	

Lab Sample ID: LCS 880-59980/2-A
Matrix: Solid
Analysis Batch: 60059

Client Sample ID: Lab Control Sample
Prep Type: Soluble

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	265.3		mg/Kg		106	90 - 110		

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-59980/3-A

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	266.0		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-31967-1 MS

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: S-11-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	175		248	405.1		mg/Kg		93	90 - 110		

Lab Sample ID: 880-31967-1 MSD

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: S-11-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	175		248	404.3		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 880-31967-11 MS

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: S-5-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	56.3		250	317.8		mg/Kg		105	90 - 110		

Lab Sample ID: 880-31967-11 MSD

Matrix: Solid

Analysis Batch: 60059

Client Sample ID: S-5-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	56.3		250	318.0		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-59977/1-A

Matrix: Solid

Analysis Batch: 60062

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/13/23 07:50	1

Lab Sample ID: LCS 880-59977/2-A

Matrix: Solid

Analysis Batch: 60062

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.1		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-59977/3-A

Matrix: Solid

Analysis Batch: 60062

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	274.8		mg/Kg		110	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59978/1-A

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			08/13/23 13:53	1

Lab Sample ID: LCS 880-59978/2-A

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	271.2		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-59978/3-A

Matrix: Solid

Analysis Batch: 60063

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	271.9		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-31967-21 MS

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: S-2-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6390	F1	2520	9283	F1	mg/Kg		115	90 - 110

Lab Sample ID: 880-31967-21 MSD

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: S-2-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6390	F1	2520	9235	F1	mg/Kg		113	90 - 110	1	20

Lab Sample ID: 880-31967-31 MS

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: S-7-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7740	F1	2480	10670	F1	mg/Kg		118	90 - 110

Lab Sample ID: 880-31967-31 MSD

Matrix: Solid

Analysis Batch: 60063

Client Sample ID: S-7-4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7740	F1	2480	10620	F1	mg/Kg		116	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 60732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60732/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 60733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	5030B	
880-31967-2	S-11-2'	Total/NA	Solid	5030B	
880-31967-3	S-11-4'	Total/NA	Solid	5030B	
880-31967-4	S-11-5'	Total/NA	Solid	5030B	
880-31967-5	S-4-1'	Total/NA	Solid	5030B	
880-31967-6	S-4-2'	Total/NA	Solid	5030B	
880-31967-7	S-4-4'	Total/NA	Solid	5030B	
880-31967-8	S-4-5'	Total/NA	Solid	5030B	
880-31967-9	S-5-1'	Total/NA	Solid	5030B	
880-31967-10	S-5-2'	Total/NA	Solid	5030B	
880-31967-11	S-5-4'	Total/NA	Solid	5030B	
880-31967-12	S-5-5'	Total/NA	Solid	5030B	
880-31967-13	S-6-1'	Total/NA	Solid	5030B	
880-31967-14	S-6-2'	Total/NA	Solid	5030B	
880-31967-15	S-6-4'	Total/NA	Solid	5030B	
880-31967-16	S-6-5'	Total/NA	Solid	5030B	
880-31967-17	S-1-1'	Total/NA	Solid	5030B	
880-31967-18	S-1-2'	Total/NA	Solid	5030B	
880-31967-19	S-1-4'	Total/NA	Solid	5030B	
880-31967-20	S-1-5'	Total/NA	Solid	5030B	
MB 880-60733/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-60733/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-60733/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-31967-1 MS	S-11-1'	Total/NA	Solid	5030B	
880-31967-1 MSD	S-11-1'	Total/NA	Solid	5030B	

Prep Batch: 60734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Total/NA	Solid	5030B	
880-31967-22	S-2-2'	Total/NA	Solid	5030B	
880-31967-23	S-2-4'	Total/NA	Solid	5030B	
880-31967-24	S-2-5'	Total/NA	Solid	5030B	
880-31967-25	S-3-1'	Total/NA	Solid	5030B	
880-31967-26	S-3-2'	Total/NA	Solid	5030B	
880-31967-27	S-3-4'	Total/NA	Solid	5030B	
880-31967-28	S-3-5'	Total/NA	Solid	5030B	
880-31967-29	S-7-1'	Total/NA	Solid	5030B	
880-31967-30	S-7-2'	Total/NA	Solid	5030B	
880-31967-31	S-7-4'	Total/NA	Solid	5030B	
880-31967-32	S-7-5'	Total/NA	Solid	5030B	
880-31967-33	S-8-1'	Total/NA	Solid	5030B	
880-31967-34	S-8-2'	Total/NA	Solid	5030B	
880-31967-35	S-8-4'	Total/NA	Solid	5030B	
880-31967-36	S-8-5'	Total/NA	Solid	5030B	
880-31967-37	S-9-1'	Total/NA	Solid	5030B	
880-31967-38	S-9-2'	Total/NA	Solid	5030B	
880-31967-39	S-9-4'	Total/NA	Solid	5030B	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC VOA (Continued)

Prep Batch: 60734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-40	S-9-5'	Total/NA	Solid	5030B	
MB 880-60734/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-60734/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-60734/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-31967-21 MS	S-2-1'	Total/NA	Solid	5030B	
880-31967-21 MSD	S-2-1'	Total/NA	Solid	5030B	

Analysis Batch: 60781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	8021B	60733
880-31967-2	S-11-2'	Total/NA	Solid	8021B	60733
880-31967-3	S-11-4'	Total/NA	Solid	8021B	60733
880-31967-4	S-11-5'	Total/NA	Solid	8021B	60733
880-31967-5	S-4-1'	Total/NA	Solid	8021B	60733
880-31967-6	S-4-2'	Total/NA	Solid	8021B	60733
880-31967-7	S-4-4'	Total/NA	Solid	8021B	60733
880-31967-8	S-4-5'	Total/NA	Solid	8021B	60733
880-31967-9	S-5-1'	Total/NA	Solid	8021B	60733
880-31967-10	S-5-2'	Total/NA	Solid	8021B	60733
880-31967-11	S-5-4'	Total/NA	Solid	8021B	60733
880-31967-12	S-5-5'	Total/NA	Solid	8021B	60733
880-31967-13	S-6-1'	Total/NA	Solid	8021B	60733
880-31967-14	S-6-2'	Total/NA	Solid	8021B	60733
880-31967-15	S-6-4'	Total/NA	Solid	8021B	60733
880-31967-16	S-6-5'	Total/NA	Solid	8021B	60733
880-31967-17	S-1-1'	Total/NA	Solid	8021B	60733
880-31967-18	S-1-2'	Total/NA	Solid	8021B	60733
880-31967-19	S-1-4'	Total/NA	Solid	8021B	60733
880-31967-20	S-1-5'	Total/NA	Solid	8021B	60733
880-31967-21	S-2-1'	Total/NA	Solid	8021B	60734
880-31967-22	S-2-2'	Total/NA	Solid	8021B	60734
880-31967-23	S-2-4'	Total/NA	Solid	8021B	60734
880-31967-24	S-2-5'	Total/NA	Solid	8021B	60734
880-31967-25	S-3-1'	Total/NA	Solid	8021B	60734
880-31967-26	S-3-2'	Total/NA	Solid	8021B	60734
880-31967-27	S-3-4'	Total/NA	Solid	8021B	60734
880-31967-28	S-3-5'	Total/NA	Solid	8021B	60734
880-31967-29	S-7-1'	Total/NA	Solid	8021B	60734
880-31967-30	S-7-2'	Total/NA	Solid	8021B	60734
880-31967-31	S-7-4'	Total/NA	Solid	8021B	60734
880-31967-32	S-7-5'	Total/NA	Solid	8021B	60734
880-31967-33	S-8-1'	Total/NA	Solid	8021B	60734
880-31967-34	S-8-2'	Total/NA	Solid	8021B	60734
880-31967-35	S-8-4'	Total/NA	Solid	8021B	60734
880-31967-36	S-8-5'	Total/NA	Solid	8021B	60734
880-31967-37	S-9-1'	Total/NA	Solid	8021B	60734
880-31967-38	S-9-2'	Total/NA	Solid	8021B	60734
880-31967-39	S-9-4'	Total/NA	Solid	8021B	60734
880-31967-40	S-9-5'	Total/NA	Solid	8021B	60734
MB 880-60733/5-A	Method Blank	Total/NA	Solid	8021B	60733
MB 880-60734/5-A	Method Blank	Total/NA	Solid	8021B	60734

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC VOA (Continued)

Analysis Batch: 60781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-60733/1-A	Lab Control Sample	Total/NA	Solid	8021B	60733
LCS 880-60734/1-A	Lab Control Sample	Total/NA	Solid	8021B	60734
LCSD 880-60733/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60733
LCSD 880-60734/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60734
880-31967-1 MS	S-11-1'	Total/NA	Solid	8021B	60733
880-31967-1 MSD	S-11-1'	Total/NA	Solid	8021B	60733
880-31967-21 MS	S-2-1'	Total/NA	Solid	8021B	60734
880-31967-21 MSD	S-2-1'	Total/NA	Solid	8021B	60734

Analysis Batch: 60782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Total/NA	Solid	8021B	60818
880-31967-42	S-10-2'	Total/NA	Solid	8021B	60818
880-31967-43	S-10-4'	Total/NA	Solid	8021B	60818
880-31967-44	S-10-5'	Total/NA	Solid	8021B	60818
MB 880-60732/5-A	Method Blank	Total/NA	Solid	8021B	60732
MB 880-60818/5-A	Method Blank	Total/NA	Solid	8021B	60818
LCS 880-60818/1-A	Lab Control Sample	Total/NA	Solid	8021B	60818
LCSD 880-60818/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60818

Prep Batch: 60818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Total/NA	Solid	5030B	
880-31967-42	S-10-2'	Total/NA	Solid	5030B	
880-31967-43	S-10-4'	Total/NA	Solid	5030B	
880-31967-44	S-10-5'	Total/NA	Solid	5030B	
MB 880-60818/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-60818/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-60818/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 60635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	8015B NM	60722
880-31967-2	S-11-2'	Total/NA	Solid	8015B NM	60722
880-31967-3	S-11-4'	Total/NA	Solid	8015B NM	60722
880-31967-4	S-11-5'	Total/NA	Solid	8015B NM	60722
880-31967-5	S-4-1'	Total/NA	Solid	8015B NM	60722
880-31967-6	S-4-2'	Total/NA	Solid	8015B NM	60722
880-31967-7	S-4-4'	Total/NA	Solid	8015B NM	60722
880-31967-8	S-4-5'	Total/NA	Solid	8015B NM	60722
880-31967-9	S-5-1'	Total/NA	Solid	8015B NM	60722
880-31967-10	S-5-2'	Total/NA	Solid	8015B NM	60722
880-31967-11	S-5-4'	Total/NA	Solid	8015B NM	60722
880-31967-12	S-5-5'	Total/NA	Solid	8015B NM	60722
880-31967-13	S-6-1'	Total/NA	Solid	8015B NM	60722
880-31967-14	S-6-2'	Total/NA	Solid	8015B NM	60722
880-31967-15	S-6-4'	Total/NA	Solid	8015B NM	60722
880-31967-16	S-6-5'	Total/NA	Solid	8015B NM	60722
880-31967-17	S-1-1'	Total/NA	Solid	8015B NM	60722

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 60635 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-18	S-1-2'	Total/NA	Solid	8015B NM	60722
880-31967-19	S-1-4'	Total/NA	Solid	8015B NM	60722
880-31967-20	S-1-5'	Total/NA	Solid	8015B NM	60722
MB 880-60722/1-A	Method Blank	Total/NA	Solid	8015B NM	60722
LCS 880-60722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60722
LCSD 880-60722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60722
880-31967-1 MS	S-11-1'	Total/NA	Solid	8015B NM	60722
880-31967-1 MSD	S-11-1'	Total/NA	Solid	8015B NM	60722

Analysis Batch: 60637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Total/NA	Solid	8015B NM	60723
880-31967-22	S-2-2'	Total/NA	Solid	8015B NM	60723
880-31967-23	S-2-4'	Total/NA	Solid	8015B NM	60723
880-31967-24	S-2-5'	Total/NA	Solid	8015B NM	60723
880-31967-25	S-3-1'	Total/NA	Solid	8015B NM	60723
880-31967-26	S-3-2'	Total/NA	Solid	8015B NM	60723
880-31967-27	S-3-4'	Total/NA	Solid	8015B NM	60723
880-31967-28	S-3-5'	Total/NA	Solid	8015B NM	60723
880-31967-29	S-7-1'	Total/NA	Solid	8015B NM	60723
880-31967-30	S-7-2'	Total/NA	Solid	8015B NM	60723
880-31967-31	S-7-4'	Total/NA	Solid	8015B NM	60723
880-31967-32	S-7-5'	Total/NA	Solid	8015B NM	60723
880-31967-33	S-8-1'	Total/NA	Solid	8015B NM	60723
880-31967-34	S-8-2'	Total/NA	Solid	8015B NM	60723
880-31967-35	S-8-4'	Total/NA	Solid	8015B NM	60723
880-31967-36	S-8-5'	Total/NA	Solid	8015B NM	60723
880-31967-37	S-9-1'	Total/NA	Solid	8015B NM	60723
880-31967-38	S-9-2'	Total/NA	Solid	8015B NM	60723
880-31967-39	S-9-4'	Total/NA	Solid	8015B NM	60723
880-31967-40	S-9-5'	Total/NA	Solid	8015B NM	60723
MB 880-60723/1-A	Method Blank	Total/NA	Solid	8015B NM	60723
LCS 880-60723/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60723
LCSD 880-60723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60723
880-31967-21 MS	S-2-1'	Total/NA	Solid	8015B NM	60723
880-31967-21 MSD	S-2-1'	Total/NA	Solid	8015B NM	60723

Prep Batch: 60722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	8015NM Prep	
880-31967-2	S-11-2'	Total/NA	Solid	8015NM Prep	
880-31967-3	S-11-4'	Total/NA	Solid	8015NM Prep	
880-31967-4	S-11-5'	Total/NA	Solid	8015NM Prep	
880-31967-5	S-4-1'	Total/NA	Solid	8015NM Prep	
880-31967-6	S-4-2'	Total/NA	Solid	8015NM Prep	
880-31967-7	S-4-4'	Total/NA	Solid	8015NM Prep	
880-31967-8	S-4-5'	Total/NA	Solid	8015NM Prep	
880-31967-9	S-5-1'	Total/NA	Solid	8015NM Prep	
880-31967-10	S-5-2'	Total/NA	Solid	8015NM Prep	
880-31967-11	S-5-4'	Total/NA	Solid	8015NM Prep	
880-31967-12	S-5-5'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Prep Batch: 60722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-13	S-6-1'	Total/NA	Solid	8015NM Prep	
880-31967-14	S-6-2'	Total/NA	Solid	8015NM Prep	
880-31967-15	S-6-4'	Total/NA	Solid	8015NM Prep	
880-31967-16	S-6-5'	Total/NA	Solid	8015NM Prep	
880-31967-17	S-1-1'	Total/NA	Solid	8015NM Prep	
880-31967-18	S-1-2'	Total/NA	Solid	8015NM Prep	
880-31967-19	S-1-4'	Total/NA	Solid	8015NM Prep	
880-31967-20	S-1-5'	Total/NA	Solid	8015NM Prep	
MB 880-60722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31967-1 MS	S-11-1'	Total/NA	Solid	8015NM Prep	
880-31967-1 MSD	S-11-1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 60723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Total/NA	Solid	8015NM Prep	
880-31967-22	S-2-2'	Total/NA	Solid	8015NM Prep	
880-31967-23	S-2-4'	Total/NA	Solid	8015NM Prep	
880-31967-24	S-2-5'	Total/NA	Solid	8015NM Prep	
880-31967-25	S-3-1'	Total/NA	Solid	8015NM Prep	
880-31967-26	S-3-2'	Total/NA	Solid	8015NM Prep	
880-31967-27	S-3-4'	Total/NA	Solid	8015NM Prep	
880-31967-28	S-3-5'	Total/NA	Solid	8015NM Prep	
880-31967-29	S-7-1'	Total/NA	Solid	8015NM Prep	
880-31967-30	S-7-2'	Total/NA	Solid	8015NM Prep	
880-31967-31	S-7-4'	Total/NA	Solid	8015NM Prep	
880-31967-32	S-7-5'	Total/NA	Solid	8015NM Prep	
880-31967-33	S-8-1'	Total/NA	Solid	8015NM Prep	
880-31967-34	S-8-2'	Total/NA	Solid	8015NM Prep	
880-31967-35	S-8-4'	Total/NA	Solid	8015NM Prep	
880-31967-36	S-8-5'	Total/NA	Solid	8015NM Prep	
880-31967-37	S-9-1'	Total/NA	Solid	8015NM Prep	
880-31967-38	S-9-2'	Total/NA	Solid	8015NM Prep	
880-31967-39	S-9-4'	Total/NA	Solid	8015NM Prep	
880-31967-40	S-9-5'	Total/NA	Solid	8015NM Prep	
MB 880-60723/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60723/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60723/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31967-21 MS	S-2-1'	Total/NA	Solid	8015NM Prep	
880-31967-21 MSD	S-2-1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Total/NA	Solid	8015B NM	60816
880-31967-42	S-10-2'	Total/NA	Solid	8015B NM	60816
880-31967-43	S-10-4'	Total/NA	Solid	8015B NM	60816
880-31967-44	S-10-5'	Total/NA	Solid	8015B NM	60816
MB 880-60816/1-A	Method Blank	Total/NA	Solid	8015B NM	60816
LCS 880-60816/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60816
LCSD 880-60816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60816

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 60778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41 MS	S-10-1'	Total/NA	Solid	8015B NM	60816
880-31967-41 MSD	S-10-1'	Total/NA	Solid	8015B NM	60816

Prep Batch: 60816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Total/NA	Solid	8015NM Prep	
880-31967-42	S-10-2'	Total/NA	Solid	8015NM Prep	
880-31967-43	S-10-4'	Total/NA	Solid	8015NM Prep	
880-31967-44	S-10-5'	Total/NA	Solid	8015NM Prep	
MB 880-60816/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60816/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31967-41 MS	S-10-1'	Total/NA	Solid	8015NM Prep	
880-31967-41 MSD	S-10-1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Total/NA	Solid	8015 NM	
880-31967-2	S-11-2'	Total/NA	Solid	8015 NM	
880-31967-3	S-11-4'	Total/NA	Solid	8015 NM	
880-31967-4	S-11-5'	Total/NA	Solid	8015 NM	
880-31967-5	S-4-1'	Total/NA	Solid	8015 NM	
880-31967-6	S-4-2'	Total/NA	Solid	8015 NM	
880-31967-7	S-4-4'	Total/NA	Solid	8015 NM	
880-31967-8	S-4-5'	Total/NA	Solid	8015 NM	
880-31967-9	S-5-1'	Total/NA	Solid	8015 NM	
880-31967-10	S-5-2'	Total/NA	Solid	8015 NM	
880-31967-11	S-5-4'	Total/NA	Solid	8015 NM	
880-31967-12	S-5-5'	Total/NA	Solid	8015 NM	
880-31967-13	S-6-1'	Total/NA	Solid	8015 NM	
880-31967-14	S-6-2'	Total/NA	Solid	8015 NM	
880-31967-15	S-6-4'	Total/NA	Solid	8015 NM	
880-31967-16	S-6-5'	Total/NA	Solid	8015 NM	
880-31967-17	S-1-1'	Total/NA	Solid	8015 NM	
880-31967-18	S-1-2'	Total/NA	Solid	8015 NM	
880-31967-19	S-1-4'	Total/NA	Solid	8015 NM	
880-31967-20	S-1-5'	Total/NA	Solid	8015 NM	
880-31967-21	S-2-1'	Total/NA	Solid	8015 NM	
880-31967-22	S-2-2'	Total/NA	Solid	8015 NM	
880-31967-23	S-2-4'	Total/NA	Solid	8015 NM	
880-31967-24	S-2-5'	Total/NA	Solid	8015 NM	
880-31967-25	S-3-1'	Total/NA	Solid	8015 NM	
880-31967-26	S-3-2'	Total/NA	Solid	8015 NM	
880-31967-27	S-3-4'	Total/NA	Solid	8015 NM	
880-31967-28	S-3-5'	Total/NA	Solid	8015 NM	
880-31967-29	S-7-1'	Total/NA	Solid	8015 NM	
880-31967-30	S-7-2'	Total/NA	Solid	8015 NM	
880-31967-31	S-7-4'	Total/NA	Solid	8015 NM	
880-31967-32	S-7-5'	Total/NA	Solid	8015 NM	
880-31967-33	S-8-1'	Total/NA	Solid	8015 NM	
880-31967-34	S-8-2'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

GC Semi VOA (Continued)

Analysis Batch: 60817 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-35	S-8-4'	Total/NA	Solid	8015 NM	
880-31967-36	S-8-5'	Total/NA	Solid	8015 NM	
880-31967-37	S-9-1'	Total/NA	Solid	8015 NM	
880-31967-38	S-9-2'	Total/NA	Solid	8015 NM	
880-31967-39	S-9-4'	Total/NA	Solid	8015 NM	
880-31967-40	S-9-5'	Total/NA	Solid	8015 NM	
880-31967-41	S-10-1'	Total/NA	Solid	8015 NM	
880-31967-42	S-10-2'	Total/NA	Solid	8015 NM	
880-31967-43	S-10-4'	Total/NA	Solid	8015 NM	
880-31967-44	S-10-5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Soluble	Solid	DI Leach	
880-31967-42	S-10-2'	Soluble	Solid	DI Leach	
880-31967-43	S-10-4'	Soluble	Solid	DI Leach	
880-31967-44	S-10-5'	Soluble	Solid	DI Leach	
MB 880-59977/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59977/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59977/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 59978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Soluble	Solid	DI Leach	
880-31967-22	S-2-2'	Soluble	Solid	DI Leach	
880-31967-23	S-2-4'	Soluble	Solid	DI Leach	
880-31967-24	S-2-5'	Soluble	Solid	DI Leach	
880-31967-25	S-3-1'	Soluble	Solid	DI Leach	
880-31967-26	S-3-2'	Soluble	Solid	DI Leach	
880-31967-27	S-3-4'	Soluble	Solid	DI Leach	
880-31967-28	S-3-5'	Soluble	Solid	DI Leach	
880-31967-29	S-7-1'	Soluble	Solid	DI Leach	
880-31967-30	S-7-2'	Soluble	Solid	DI Leach	
880-31967-31	S-7-4'	Soluble	Solid	DI Leach	
880-31967-32	S-7-5'	Soluble	Solid	DI Leach	
880-31967-33	S-8-1'	Soluble	Solid	DI Leach	
880-31967-34	S-8-2'	Soluble	Solid	DI Leach	
880-31967-35	S-8-4'	Soluble	Solid	DI Leach	
880-31967-36	S-8-5'	Soluble	Solid	DI Leach	
880-31967-37	S-9-1'	Soluble	Solid	DI Leach	
880-31967-38	S-9-2'	Soluble	Solid	DI Leach	
880-31967-39	S-9-4'	Soluble	Solid	DI Leach	
880-31967-40	S-9-5'	Soluble	Solid	DI Leach	
MB 880-59978/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59978/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59978/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31967-21 MS	S-2-1'	Soluble	Solid	DI Leach	
880-31967-21 MSD	S-2-1'	Soluble	Solid	DI Leach	
880-31967-31 MS	S-7-4'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Leach Batch: 59978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-31 MSD	S-7-4'	Soluble	Solid	DI Leach	

Leach Batch: 59980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Soluble	Solid	DI Leach	
880-31967-2	S-11-2'	Soluble	Solid	DI Leach	
880-31967-3	S-11-4'	Soluble	Solid	DI Leach	
880-31967-4	S-11-5'	Soluble	Solid	DI Leach	
880-31967-5	S-4-1'	Soluble	Solid	DI Leach	
880-31967-6	S-4-2'	Soluble	Solid	DI Leach	
880-31967-7	S-4-4'	Soluble	Solid	DI Leach	
880-31967-8	S-4-5'	Soluble	Solid	DI Leach	
880-31967-9	S-5-1'	Soluble	Solid	DI Leach	
880-31967-10	S-5-2'	Soluble	Solid	DI Leach	
880-31967-11	S-5-4'	Soluble	Solid	DI Leach	
880-31967-12	S-5-5'	Soluble	Solid	DI Leach	
880-31967-13	S-6-1'	Soluble	Solid	DI Leach	
880-31967-14	S-6-2'	Soluble	Solid	DI Leach	
880-31967-15	S-6-4'	Soluble	Solid	DI Leach	
880-31967-16	S-6-5'	Soluble	Solid	DI Leach	
880-31967-17	S-1-1'	Soluble	Solid	DI Leach	
880-31967-18	S-1-2'	Soluble	Solid	DI Leach	
880-31967-19	S-1-4'	Soluble	Solid	DI Leach	
880-31967-20	S-1-5'	Soluble	Solid	DI Leach	
MB 880-59980/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59980/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59980/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31967-1 MS	S-11-1'	Soluble	Solid	DI Leach	
880-31967-1 MSD	S-11-1'	Soluble	Solid	DI Leach	
880-31967-11 MS	S-5-4'	Soluble	Solid	DI Leach	
880-31967-11 MSD	S-5-4'	Soluble	Solid	DI Leach	

Analysis Batch: 60059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-1	S-11-1'	Soluble	Solid	300.0	59980
880-31967-2	S-11-2'	Soluble	Solid	300.0	59980
880-31967-3	S-11-4'	Soluble	Solid	300.0	59980
880-31967-4	S-11-5'	Soluble	Solid	300.0	59980
880-31967-5	S-4-1'	Soluble	Solid	300.0	59980
880-31967-6	S-4-2'	Soluble	Solid	300.0	59980
880-31967-7	S-4-4'	Soluble	Solid	300.0	59980
880-31967-8	S-4-5'	Soluble	Solid	300.0	59980
880-31967-9	S-5-1'	Soluble	Solid	300.0	59980
880-31967-10	S-5-2'	Soluble	Solid	300.0	59980
880-31967-11	S-5-4'	Soluble	Solid	300.0	59980
880-31967-12	S-5-5'	Soluble	Solid	300.0	59980
880-31967-13	S-6-1'	Soluble	Solid	300.0	59980
880-31967-14	S-6-2'	Soluble	Solid	300.0	59980
880-31967-15	S-6-4'	Soluble	Solid	300.0	59980
880-31967-16	S-6-5'	Soluble	Solid	300.0	59980
880-31967-17	S-1-1'	Soluble	Solid	300.0	59980

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

HPLC/IC (Continued)

Analysis Batch: 60059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-18	S-1-2'	Soluble	Solid	300.0	59980
880-31967-19	S-1-4'	Soluble	Solid	300.0	59980
880-31967-20	S-1-5'	Soluble	Solid	300.0	59980
MB 880-59980/1-A	Method Blank	Soluble	Solid	300.0	59980
LCS 880-59980/2-A	Lab Control Sample	Soluble	Solid	300.0	59980
LCSD 880-59980/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59980
880-31967-1 MS	S-11-1'	Soluble	Solid	300.0	59980
880-31967-1 MSD	S-11-1'	Soluble	Solid	300.0	59980
880-31967-11 MS	S-5-4'	Soluble	Solid	300.0	59980
880-31967-11 MSD	S-5-4'	Soluble	Solid	300.0	59980

Analysis Batch: 60062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-41	S-10-1'	Soluble	Solid	300.0	59977
880-31967-42	S-10-2'	Soluble	Solid	300.0	59977
880-31967-43	S-10-4'	Soluble	Solid	300.0	59977
880-31967-44	S-10-5'	Soluble	Solid	300.0	59977
MB 880-59977/1-A	Method Blank	Soluble	Solid	300.0	59977
LCS 880-59977/2-A	Lab Control Sample	Soluble	Solid	300.0	59977
LCSD 880-59977/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59977

Analysis Batch: 60063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31967-21	S-2-1'	Soluble	Solid	300.0	59978
880-31967-22	S-2-2'	Soluble	Solid	300.0	59978
880-31967-23	S-2-4'	Soluble	Solid	300.0	59978
880-31967-24	S-2-5'	Soluble	Solid	300.0	59978
880-31967-25	S-3-1'	Soluble	Solid	300.0	59978
880-31967-26	S-3-2'	Soluble	Solid	300.0	59978
880-31967-27	S-3-4'	Soluble	Solid	300.0	59978
880-31967-28	S-3-5'	Soluble	Solid	300.0	59978
880-31967-29	S-7-1'	Soluble	Solid	300.0	59978
880-31967-30	S-7-2'	Soluble	Solid	300.0	59978
880-31967-31	S-7-4'	Soluble	Solid	300.0	59978
880-31967-32	S-7-5'	Soluble	Solid	300.0	59978
880-31967-33	S-8-1'	Soluble	Solid	300.0	59978
880-31967-34	S-8-2'	Soluble	Solid	300.0	59978
880-31967-35	S-8-4'	Soluble	Solid	300.0	59978
880-31967-36	S-8-5'	Soluble	Solid	300.0	59978
880-31967-37	S-9-1'	Soluble	Solid	300.0	59978
880-31967-38	S-9-2'	Soluble	Solid	300.0	59978
880-31967-39	S-9-4'	Soluble	Solid	300.0	59978
880-31967-40	S-9-5'	Soluble	Solid	300.0	59978
MB 880-59978/1-A	Method Blank	Soluble	Solid	300.0	59978
LCS 880-59978/2-A	Lab Control Sample	Soluble	Solid	300.0	59978
LCSD 880-59978/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59978
880-31967-21 MS	S-2-1'	Soluble	Solid	300.0	59978
880-31967-21 MSD	S-2-1'	Soluble	Solid	300.0	59978
880-31967-31 MS	S-7-4'	Soluble	Solid	300.0	59978
880-31967-31 MSD	S-7-4'	Soluble	Solid	300.0	59978

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-1'
Date Collected: 08/10/23 10:00
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 17:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 20:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 14:23	SMC	EET MID

Client Sample ID: S-11-2'
Date Collected: 08/10/23 10:10
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 21:22	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 14:54	SMC	EET MID

Client Sample ID: S-11-4'
Date Collected: 08/10/23 10:20
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 21:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 15:05	SMC	EET MID

Client Sample ID: S-11-5'
Date Collected: 08/10/23 10:30
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 18:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 22:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-11-5'**Lab Sample ID: 880-31967-4****Date Collected: 08/10/23 10:30****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 15:15	SMC	EET MID

Client Sample ID: S-4-1'**Lab Sample ID: 880-31967-5****Date Collected: 08/10/23 11:00****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 18:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 22:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 15:25	SMC	EET MID

Client Sample ID: S-4-2'**Lab Sample ID: 880-31967-6****Date Collected: 08/10/23 11:08****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 19:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 22:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 15:57	SMC	EET MID

Client Sample ID: S-4-4'**Lab Sample ID: 880-31967-7****Date Collected: 08/10/23 11:15****Matrix: Solid****Date Received: 08/11/23 14:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 19:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 23:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:07	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-4-5'
Date Collected: 08/10/23 11:25
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 20:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 23:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:17	SMC	EET MID

Client Sample ID: S-5-1'
Date Collected: 08/10/23 11:40
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-9
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	5030B			4.96 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 20:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/21/23 23:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:28	SMC	EET MID

Client Sample ID: S-5-2'
Date Collected: 08/10/23 11:48
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 21:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 00:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:38	SMC	EET MID

Client Sample ID: S-5-4'
Date Collected: 08/10/23 11:53
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 22:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 00:54	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-5-4'**Lab Sample ID: 880-31967-11****Date Collected: 08/10/23 11:53****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 16:48	SMC	EET MID

Client Sample ID: S-5-5'**Lab Sample ID: 880-31967-12****Date Collected: 08/10/23 12:00****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 23:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 01:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 17:20	SMC	EET MID

Client Sample ID: S-6-1'**Lab Sample ID: 880-31967-13****Date Collected: 08/10/23 12:55****Matrix: Solid****Date Received: 08/11/23 14:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/22/23 23:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 01:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 17:30	SMC	EET MID

Client Sample ID: S-6-2'**Lab Sample ID: 880-31967-14****Date Collected: 08/10/23 13:08****Matrix: Solid****Date Received: 08/11/23 14:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 00:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 01:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:01	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-6-4'
Date Collected: 08/10/23 13:15
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-15
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	5030B			5.02 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 00:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 02:19	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:11	SMC	EET MID

Client Sample ID: S-6-5'
Date Collected: 08/10/23 13:20
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-16
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	5030B			5.00 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 00:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 02:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:22	SMC	EET MID

Client Sample ID: S-1-1'
Date Collected: 08/10/23 13:35
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-17
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	5030B			5.02 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 01:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 03:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:32	SMC	EET MID

Client Sample ID: S-1-2'
Date Collected: 08/10/23 13:40
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 01:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 03:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-1-2'**Lab Sample ID: 880-31967-18****Date Collected: 08/10/23 13:40****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:42	SMC	EET MID

Client Sample ID: S-1-4'**Lab Sample ID: 880-31967-19****Date Collected: 08/10/23 13:50****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 02:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 03:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 18:53	SMC	EET MID

Client Sample ID: S-1-5'**Lab Sample ID: 880-31967-20****Date Collected: 08/10/23 14:00****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60733	08/21/23 12:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 02:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	60722	08/21/23 11:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60635	08/22/23 04:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59980	08/11/23 16:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60059	08/12/23 19:03	SMC	EET MID

Client Sample ID: S-2-1'**Lab Sample ID: 880-31967-21****Date Collected: 08/10/23 14:25****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 06:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 20:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 15:47	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-2-2'
Date Collected: 08/10/23 14:30
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 06:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 21:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 16:18	SMC	EET MID

Client Sample ID: S-2-4'
Date Collected: 08/10/23 14:40
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 07:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 21:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 16:29	SMC	EET MID

Client Sample ID: S-2-5'
Date Collected: 08/10/23 14:48
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 07:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 22:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 16:39	SMC	EET MID

Client Sample ID: S-3-1'
Date Collected: 08/10/23 15:05
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 08:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 22:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-3-1'**Lab Sample ID: 880-31967-25****Date Collected: 08/10/23 15:05****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 16:49	SMC	EET MID

Client Sample ID: S-3-2'**Lab Sample ID: 880-31967-26****Date Collected: 08/10/23 15:20****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 08:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 22:47	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 17:21	SMC	EET MID

Client Sample ID: S-3-4'**Lab Sample ID: 880-31967-27****Date Collected: 08/10/23 15:27****Matrix: Solid****Date Received: 08/11/23 14:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 09:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 23:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 17:31	SMC	EET MID

Client Sample ID: S-3-5'**Lab Sample ID: 880-31967-28****Date Collected: 08/10/23 15:35****Matrix: Solid****Date Received: 08/11/23 14:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 23:29	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 17:41	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-1'
Date Collected: 08/10/23 16:00
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 09:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 23:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 17:52	SMC	EET MID

Client Sample ID: S-7-2'
Date Collected: 08/10/23 16:10
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-30
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	5030B			5.01 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 10:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 00:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 18:02	SMC	EET MID

Client Sample ID: S-7-4'
Date Collected: 08/10/23 16:20
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-31
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	5030B			5.05 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 12:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 00:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 18:13	SMC	EET MID

Client Sample ID: S-7-5'
Date Collected: 08/10/23 16:27
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-32
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	5030B			5.00 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 01:15	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-7-5'
Date Collected: 08/10/23 16:27
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 18:44	SMC	EET MID

Client Sample ID: S-8-1'
Date Collected: 08/11/23 08:30
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 13:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 01:36	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 18:54	SMC	EET MID

Client Sample ID: S-8-2'
Date Collected: 08/11/23 09:40
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 13:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 01:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 19:25	SMC	EET MID

Client Sample ID: S-8-4'
Date Collected: 08/11/23 09:48
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 02:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 19:35	SMC	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-8-5'
Date Collected: 08/11/23 10:00
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 14:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 02:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 19:46	SMC	EET MID

Client Sample ID: S-9-1'
Date Collected: 08/11/23 10:15
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 14:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 03:01	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	60063	08/13/23 19:56	SMC	EET MID

Client Sample ID: S-9-2'
Date Collected: 08/11/23 10:21
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 03:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 20:06	SMC	EET MID

Client Sample ID: S-9-4'
Date Collected: 08/11/23 10:30
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 15:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 03:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-9-4'**Lab Sample ID: 880-31967-39****Date Collected: 08/11/23 10:30****Matrix: Solid****Date Received: 08/11/23 14:12**

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	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	60063	08/13/23 20:17	SMC	EET MID

Client Sample ID: S-9-5'**Lab Sample ID: 880-31967-40****Date Collected: 08/11/23 10:38****Matrix: Solid****Date Received: 08/11/23 14:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	60734	08/21/23 12:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60781	08/23/23 16:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	60723	08/21/23 11:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/22/23 04:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59978	08/11/23 16:09	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60063	08/13/23 20:27	SMC	EET MID

Client Sample ID: S-10-1'**Lab Sample ID: 880-31967-41****Date Collected: 08/11/23 11:00****Matrix: Solid****Date Received: 08/11/23 14:12**

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	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 06:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/23/23 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	60816	08/22/23 11:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60778	08/22/23 21:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59977	08/11/23 16:08	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	60062	08/13/23 12:30	SMC	EET MID

Client Sample ID: S-10-2'**Lab Sample ID: 880-31967-42****Date Collected: 08/11/23 11:10****Matrix: Solid****Date Received: 08/11/23 14:12**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 06:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/23/23 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	60816	08/22/23 11:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60778	08/22/23 22:06	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59977	08/11/23 16:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60062	08/13/23 12:40	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Client Sample ID: S-10-4'
Date Collected: 08/11/23 11:21
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 07:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/23/23 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	60816	08/22/23 11:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60778	08/22/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59977	08/11/23 16:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60062	08/13/23 12:51	SMC	EET MID

Client Sample ID: S-10-5'
Date Collected: 08/11/23 11:29
Date Received: 08/11/23 14:12

Lab Sample ID: 880-31967-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 07:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60817	08/23/23 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60816	08/22/23 11:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60778	08/22/23 22:49	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59977	08/11/23 16:08	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60062	08/13/23 13:01	SMC	EET MID

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

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

Method Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:
ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: SRO SWD #104

Job ID: 880-31967-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31967-1	S-11-1'	Solid	08/10/23 10:00	08/11/23 14:12
880-31967-2	S-11-2'	Solid	08/10/23 10:10	08/11/23 14:12
880-31967-3	S-11-4'	Solid	08/10/23 10:20	08/11/23 14:12
880-31967-4	S-11-5'	Solid	08/10/23 10:30	08/11/23 14:12
880-31967-5	S-4-1'	Solid	08/10/23 11:00	08/11/23 14:12
880-31967-6	S-4-2'	Solid	08/10/23 11:08	08/11/23 14:12
880-31967-7	S-4-4'	Solid	08/10/23 11:15	08/11/23 14:12
880-31967-8	S-4-5'	Solid	08/10/23 11:25	08/11/23 14:12
880-31967-9	S-5-1'	Solid	08/10/23 11:40	08/11/23 14:12
880-31967-10	S-5-2'	Solid	08/10/23 11:48	08/11/23 14:12
880-31967-11	S-5-4'	Solid	08/10/23 11:53	08/11/23 14:12
880-31967-12	S-5-5'	Solid	08/10/23 12:00	08/11/23 14:12
880-31967-13	S-6-1'	Solid	08/10/23 12:55	08/11/23 14:12
880-31967-14	S-6-2'	Solid	08/10/23 13:08	08/11/23 14:12
880-31967-15	S-6-4'	Solid	08/10/23 13:15	08/11/23 14:12
880-31967-16	S-6-5'	Solid	08/10/23 13:20	08/11/23 14:12
880-31967-17	S-1-1'	Solid	08/10/23 13:35	08/11/23 14:12
880-31967-18	S-1-2'	Solid	08/10/23 13:40	08/11/23 14:12
880-31967-19	S-1-4'	Solid	08/10/23 13:50	08/11/23 14:12
880-31967-20	S-1-5'	Solid	08/10/23 14:00	08/11/23 14:12
880-31967-21	S-2-1'	Solid	08/10/23 14:25	08/11/23 14:12
880-31967-22	S-2-2'	Solid	08/10/23 14:30	08/11/23 14:12
880-31967-23	S-2-4'	Solid	08/10/23 14:40	08/11/23 14:12
880-31967-24	S-2-5'	Solid	08/10/23 14:48	08/11/23 14:12
880-31967-25	S-3-1'	Solid	08/10/23 15:05	08/11/23 14:12
880-31967-26	S-3-2'	Solid	08/10/23 15:20	08/11/23 14:12
880-31967-27	S-3-4'	Solid	08/10/23 15:27	08/11/23 14:12
880-31967-28	S-3-5'	Solid	08/10/23 15:35	08/11/23 14:12
880-31967-29	S-7-1'	Solid	08/10/23 16:00	08/11/23 14:12
880-31967-30	S-7-2'	Solid	08/10/23 16:10	08/11/23 14:12
880-31967-31	S-7-4'	Solid	08/10/23 16:20	08/11/23 14:12
880-31967-32	S-7-5'	Solid	08/10/23 16:27	08/11/23 14:12
880-31967-33	S-8-1'	Solid	08/11/23 08:30	08/11/23 14:12
880-31967-34	S-8-2'	Solid	08/11/23 09:40	08/11/23 14:12
880-31967-35	S-8-4'	Solid	08/11/23 09:48	08/11/23 14:12
880-31967-36	S-8-5'	Solid	08/11/23 10:00	08/11/23 14:12
880-31967-37	S-9-1'	Solid	08/11/23 10:15	08/11/23 14:12
880-31967-38	S-9-2'	Solid	08/11/23 10:21	08/11/23 14:12
880-31967-39	S-9-4'	Solid	08/11/23 10:30	08/11/23 14:12
880-31967-40	S-9-5'	Solid	08/11/23 10:38	08/11/23 14:12
880-31967-41	S-10-1'	Solid	08/11/23 11:00	08/11/23 14:12
880-31967-42	S-10-2'	Solid	08/11/23 11:10	08/11/23 14:12
880-31967-43	S-10-4'	Solid	08/11/23 11:21	08/11/23 14:12
880-31967-44	S-10-5'	Solid	08/11/23 11:29	08/11/23 14:12

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record



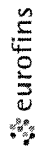
880-31967 Chain of Custody

Client Information		Lab PM Bulles John		Carrier Tracking			
Client Contact Justin Nixon		Phone 432-296-9547		State of Origin NM			
Company ARCADIS US Inc		E-Mail John.Bulles@et.eurofinsus.com		Page 1 of 4			
Address 1004 North Big Spring Suite 300		City Midland		State TX			
State Zip TX 79701		Phone 432-296-9547(Tel)		Email Justin.Nixon@arcadis.com			
Project Name SRO SWD #104		Project # 88001850		SSOW#			
Site Eddy County, NM		Due Date Requested		Analysis Requested			
TAT Requested (days) Standard		Compliance Project: ☐ Yes ☒ No		Field Filtered Sample (Yes or No)			
PO # 30190846-02		WO #		Perform MS/MSD (Yes or No)			
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)			
Sample Identification		Matrix (W=water, S=solid, O=oil, A=air)		Preservation Code			
S-11-1'		8-10-23		1000		Solid	
S-11-2'		1010		1010		Solid	
S-11-4'		1020		1020		Solid	
S-11-5'		1030		1030		Solid	
S-4-1'		1100		1100		Solid	
S-4-2'		1108		1108		Solid	
S-4-4'		1115		1115		Solid	
S-4-5'		1125		1125		Solid	
S-5-1'		1140		1140		Solid	
S-5-2'		1148		1148		Solid	
S-5-4'		1153		1153		Solid	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested I II III IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Empty Kit Relinquished by		Date		Time			
Relinquished by		Date/Time		Company			
Relinquished by		Date/Time		Company			
Relinquished by		Date/Time		Company			
Custody Seals Intact ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks			

Ver: 06/08/2021

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Justin Nixon</u>		Lab PM: <u>John Builes</u>	Carrier Tracking No(s):
Client Contact: <u>Justin Nixon</u>		Phone: <u>432-296-9547</u>		E-Mail: <u>John Builes@eurofins.com</u>	State of Origin: <u>NM</u>
Company: <u>ARCADIS US Inc</u>		PWSID:		COC No: <u>880-6492-896 2</u>	
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested:		Page 2 of 4	
City: <u>Midland</u>	State: <u>TX</u>	TAT Requested (days): <u>Standard</u>		Job #:	
Zip: <u>79701</u>	Compliance Project: <u>Δ Yes Δ No</u>				
Phone: <u>432-296-9547(Tel)</u>	PO #: <u>30190846-02</u>				
Email: <u>Justin.Nixon@arcadis.com</u>	WO #: <u>88001850</u>				
Project Name: <u>SRO SWD #104</u>	Project #: <u>88001850</u>				
Site: <u>Eddy County</u>	SSOW#: <u></u>				

Sample Identification	Sample Date	Sample Time	Sample Type (G=comp, G=grab)	Matrix (W=water, S=solid, O=overhead)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300. ORGFM, 28D, 8015MOD, NM, 8021B	Analysis Requested	Preservation Codes	Special Instructions/Note
S-5-5'	8-10-23	1200	G	Solid	X	X	N			
S-6-1'		1255		Solid						
S-6-2'		1308		Solid						
S-6-4'		1315		Solid						
S-6-5'		1320		Solid						
S-1-1'		1335		Solid						
S-1-2'		1340		Solid						
S-1-4'		1350		Solid						
S-1-5'		1400		Solid						
S-2-1'		1425		Solid						
S-2-2'		1430		Solid						

Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	
Deliverable Requested I II III IV Other (specify)			
Empty Kit Relinquished by		Time	
Relinquished by: <u>[Signature]</u>	Date: <u>8-16-23</u>	Company: <u>ARCADIS</u>	Received by: <u>[Signature]</u>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Custody Seals Intact <u>Δ Yes Δ No</u>	Custody Seal No	Cooler Temperature(s) °C and Other Remarks	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Return To Client	☐ Disposal By Lab
Archive For: _____ Months	Special Instructions/QC Requirements

Method of Shipment:	
Date/Time:	Company:
Date/Time:	Company:
Date/Time:	Company:

Ver 06/08/2021

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record

eurofins

E 4 for ment Test if g

Client Information		Lab PM Bulles John		Carrier Tracking No(s)		COC No 880-6492-896 3	
Client Contact Justin Nixon		E-Mail John Bulles@et.eurofins.com		State of Origin NM		Page Page 3 of 4	
Company ARCADIS US Inc		PWSID		Analysis Requested		Job #	
Address 1004 North Big Spring Suite 300		Due Date Requested		Field Filtered Sample (Yes or No)		Total Number of Containers	
City Midland		TAT Requested (days)		Perform MS/MSD (Yes or No)		Special Instructions/Note	
State Zip TX 79701		Compliance Project: ☐ Yes ☒ No		300. ORGFM_28D 8015MOD_NM_8021B		Preservation Codes:	
Phone 432-296-9547(Tel)		PO # 30190846-02		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)		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 Other	
Email Justin Nixon@arcadis.com		WO #		Sample Type (C=Comp, G=grab)		M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO4 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)	
Project Name SRO SWD #104		Project # 88001850		Sample Date		Special Instructions/Note	
Site 1500y canton, NM		SSOW#		Sample Time			
Sample Identification		Sample Date		Sample Time			
S-2-4'		8-10-23		1440			
S-2-5'				1448			
S-3-1'				1505			
S-3-2'				1520			
S-3-4'				1527			
S-3-5'				1535			
S-7-1'				1600			
S-7-2'				1610			
S-7-4'				1620			
S-7-5'				1627			
S-8-1'		8-11-23		1830			
Possible Hazard Identification		Sample Date		Sample Time			
☐ Non-Hazard ☐ Flammable		Poison B ☐ Unknown ☐ Radiological		Skin Irritant ☐ Skin Irritant		Deliverable Requested I II III IV Other (specify)	
Empty Kit Relinquished by		Date		Time		Special Instructions/QC Requirements	
Relinquished by		Date/Time		Company		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by		Date/Time		Company		☐ Return-To-Client ☐ Disposal By-Lab ☐ Archive For Months	
Relinquished by		Date/Time		Company		Special Instructions/QC Requirements	
Custody Seals Intact ☐ Yes ☒ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks			

Ver: 06/08/2021

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record

Loc: 880
31967

Environment Test rig

Client Information		Lab PM Bulles John		Carrier Tracking No(s)	
Client Contact: Justin Nixon		E-Mail John.Bulles@et.eurofins.com		State of <i>TX</i>	
Company ARCADIS US Inc		PWSID		Job #	
Address 1004 North Big Spring Suite 300		Due Date Requested		Analysis Requested	
City Midland		TAT Requested (days) <i>Standard</i>		Preservation Codes	
State Zip TX 79701		Compliance Project: ☐ Yes ☒ No		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 R Na2SO3 F MeOH S H2SO4 G Amchlor T TSP Dodecahydrate H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 4.5 K EDTA Y Trizma L EDA Z other (specify) Other	
Phone 432-296-9547(Tel)		PO # 30190846-02		Total Number of containers	
Email Justin.Nixon@arcadis.com		WO #		Special Instructions/Note	
Project Name SRO SWD #104		Project # 88001850			
Site <i>Eddy Canty</i>		SSOW#			

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-ORGM, 28D, 8015MOD, NM, 8021B	Special Instructions/Note
S-8-2'	8-11-23	940	C	Solid	X	X		
S-8-4'		948		Solid				
S-8-5'		1000		Solid				
S-9-1'		1015		Solid				
S-9-2'		1021		Solid				
S-9-4'		1030		Solid				
S-9-5'		1038		Solid				
S-10-1'		1100		Solid				
S-10-2'		1110		Solid				
S-10-4'		1121		Solid				
S-10-5'		1129		Solid				

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested I II III IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Special Instructions/QC Requirements			

Empty Kit Relinquished by		Date		Time	
Relinquished by: <i>[Signature]</i>		Date/Time 8-11-23		Company AF CWS	
Relinquished by		Date/Time		Company	
Relinquished by		Date/Time		Company	
Custody Seals Intact ☐ Yes ☒ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks	

Ver: 06/08/2021

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

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-31967-1
SDG Number: Eddy County, NM

Login Number: 31967

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620
www.arcadis.com

Arcadis. Improving quality of life.

Appendix D

Cultural Resource Inventory Cover Page



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

Appendix E

Laboratory Analytical Reports



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 3/22/2024 12:24:04 PM Revision 1

JOB DESCRIPTION

SRO SWD #104 EDDY COUNTY

JOB NUMBER

890-6265-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Generated
3/22/2024 12:24:04 PM
Revision 1

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Laboratory Job ID: 890-6265-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	25
Surrogate Summary	75
QC Sample Results	80
QC Association Summary	111
Lab Chronicle	132
Certification Summary	153
Method Summary	154
Sample Summary	155
Chain of Custody	157
Receipt Checklists	158

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Qualifiers

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

HPLC/IC

Qualifier	Qualifier Description
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Eurofins Carlsbad

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-39453-1

Eurofins Midland

Job Narrative 880-39453-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/15/2024 9:31 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 1.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-S-4 (880-39453-1), B-2-S-4 (880-39453-2), B-3-S-4 (880-39453-3), B-4-S-4 (880-39453-4) and B-5-S-4 (880-39453-5).

HPLC/IC

Method 300_ORGFM_28D: The matrix spike duplicate (MSD) recoveries for preparation batch 880-73229 and analytical batch 880-73260 were outside control limits. Non-homogeneity 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.

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-39453-2

Eurofins Midland

Job Narrative
880-39453-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/15/2024 9:31 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 1.7°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-1-S-4 (880-39453-1), B-2-S-4 (880-39453-2), B-3-S-4 (880-39453-3), B-4-S-4 (880-39453-4) and B-5-S-4 (880-39453-5).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-73291/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: B-1-S-4 (880-39453-1) and (880-39450-A-1-B MS). 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

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-2-S-4 (880-39453-2), (880-39344-A-1-D MS) and (880-39344-A-1-E MSD). 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 880-73296 and analytical batch 880-73424 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-39535-1

Eurofins Midland

**Job Narrative
880-39535-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/16/2024 4:44 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-6-S-4' (880-39535-1), B-7-S-4' (880-39535-2), SW-3-S-2' (880-39535-3), SW-2-S-2' (880-39535-4), B-8-S-4' (880-39535-5), B-9-S-4' (880-39535-6), B-10-S-4' (880-39535-7) and B-11-S-4' (880-39535-8).

HPLC/IC

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for preparation batch 880-73445 and 880-73445 and analytical batch 880-73456 were outside control limits. Non-homogeneity 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.

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-39535-2

Eurofins Midland

Job Narrative
880-39535-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/16/2024 4:44 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-6-S-4' (880-39535-1), B-7-S-4' (880-39535-2), SW-3-S-2' (880-39535-3), SW-2-S-2' (880-39535-4), B-8-S-4' (880-39535-5), B-9-S-4' (880-39535-6), B-10-S-4' (880-39535-7) and B-11-S-4' (880-39535-8).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-73272/5-A). 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: B-6-S-4' (880-39535-1), SW-3-S-2' (880-39535-3), SW-2-S-2' (880-39535-4), B-8-S-4' (880-39535-5), B-9-S-4' (880-39535-6), B-10-S-4' (880-39535-7), B-11-S-4' (880-39535-8), (MB 880-73562/5-A), (880-39535-A-1-C MS) and (880-39535-A-1-D 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: (LCS 880-73562/1-A) and (LCSD 880-73562/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73428 recovered above the upper control limit for Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-73428/2).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73428 recovered above the upper control limit for m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-73428/20).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73428 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-73428/33).

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: (LCSD 880-73548/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-73548 and analytical batch 880-73602 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-39535-2 (Continued) **Eurofins Midland**

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-39825-1**Eurofins Midland**

Job Narrative
880-39825-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/23/2024 9:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-8S-2' (880-39825-1), B-31-S-4 (880-39825-2) and B-32-S-4 (880-39825-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74272 and analytical batch 880-74273 was outside the control limits.

Method 8021B: The method blank for preparation batch 880-74272 and analytical batch 880-74273 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74242 and analytical batch 880-74320 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-74242 and analytical batch 880-74320 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-39825-2

Eurofins Midland

Job Narrative 880-39825-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/23/2024 9:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-8S-2' (880-39825-1), B-31-S-4 (880-39825-2) and B-32-S-4 (880-39825-3).

HPLC/IC

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-39888-1

Eurofins Midland

**Job Narrative
880-39888-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/26/2024 10:30 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 1.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-33-S-4 (880-39888-1) and B-34-S-4 (880-39888-2).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74272 and analytical batch 880-74273 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-34-S-4 (880-39888-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The method blank for preparation batch 880-74272 and 880-74289 and analytical batch 880-74273 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74289 and analytical batch 880-74273 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74398 and analytical batch 880-74445 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-74398/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-74398 and analytical batch 880-74445 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-74398 and analytical batch 880-74445 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 continuing calibration verification (CCV) associated with batch 880-74445 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-39888-1 (Continued) **Eurofins Midland**

data has been qualified and reported. The associated sample is impacted: (CCV 880-74445/20).

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.

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-40083-1

Eurofins Midland

Job Narrative 880-40083-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/29/2024 7:55 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-6-S-2 (880-40083-1), SW-5-S-2 (880-40083-2), B-40-S-4 (880-40083-3), B-41-S-4 (880-40083-4), B-42-S-4 (880-40083-5), SW-7-S-2 (880-40083-6), SW-7A-S-2 (880-40083-7), B-43-S-4 (880-40083-8), B-44-S-4 (880-40083-9), B-45-S-4 (880-40083-10), B-46-S-4 (880-40083-11) and B-47-S-4 (880-40083-12).

HPLC/IC

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-40083-2

Eurofins Midland

Job Narrative 880-40083-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/29/2024 7:55 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-6-S-2 (880-40083-1), SW-5-S-2 (880-40083-2), B-40-S-4 (880-40083-3), B-41-S-4 (880-40083-4), B-42-S-4 (880-40083-5), SW-7-S-2 (880-40083-6), SW-7A-S-2 (880-40083-7), B-43-S-4 (880-40083-8), B-44-S-4 (880-40083-9), B-45-S-4 (880-40083-10), B-46-S-4 (880-40083-11) and B-47-S-4 (880-40083-12).

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74325 and analytical batch 880-74424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D - Soluble: The continuing calibration blank (CCB) for analytical batch 880-74424 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-40083-3

Eurofins Midland

Job Narrative
880-40083-3

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/29/2024 7:55 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-6-S-2 (880-40083-1), SW-5A-S-2 (880-40083-2), B-40-S-4 (880-40083-3), B-41-S-4 (880-40083-4), B-42-S-4 (880-40083-5), SW-7-S-2 (880-40083-6), SW-7A-S-2 (880-40083-7), B-43-S-4 (880-40083-8), B-44-S-4 (880-40083-9), B-45-S-4 (880-40083-10), B-46-S-4 (880-40083-11) and B-47-S-4 (880-40083-12).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74450 and analytical batch 880-74455 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74467 and analytical batch 880-74455 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74402 and analytical batch 880-74447 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-74402 and analytical batch 880-74447 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.

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-40159-1

Eurofins Midland

Job Narrative
880-40159-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/1/2024 8:31 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 2.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-48 -S-4 (880-40159-1), B-49-S-4 (880-40159-2), B-50-S-4 (880-40159-3) and B-51-S-4 (880-40159-4).

GC VOA

Method 8021B: The method blank for preparation batch 880-74677 and analytical batch 880-74749 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-48 -S-4 (880-40159-1) and B-49-S-4 (880-40159-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74579 and analytical batch 880-74568 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 880-74579 and analytical batch 880-74568 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.

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-40212-1

Eurofins Midland

Job Narrative
880-40212-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/4/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-52-S-4' (880-40212-1), B-53-S-4' (880-40212-2), B-54-S-4' (880-40212-3), B-55-S-4' (880-40212-4), B-56-S-4' (880-40212-5), B-57-S-4' (880-40212-6), B-58-S-4' (880-40212-7), B-59-S-4' (880-40212-8), B-60-S-4' (880-40212-9), B-61-S-4' (880-40212-10), SW-5B-S-2' (880-40212-11), SW-5C-S-2' (880-40212-12) and SW-5D-S-2' (880-40212-13).

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 surrogate recovery for the blank associated with preparation batch 880-74579 and analytical batch 880-74568 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 880-74579 and analytical batch 880-74568 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The method blank for preparation batch 880-74795 and analytical batch 880-74775 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74796 and analytical batch 880-74778 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-56-S-4' (880-40212-5), B-57-S-4' (880-40212-6), B-59-S-4' (880-40212-8), B-60-S-4' (880-40212-9), SW-5B-S-2' (880-40212-11) and (880-40212-A-9-E MSD). 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 880-74796 and analytical batch 880-74778 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-74796 and analytical batch 880-74778 was outside control limits. Sample non-homogeneity is suspected.

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 880-40212-2**Eurofins Midland****Job Narrative
880-40212-2**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/4/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-52-S-4' (880-40212-1), B-53-S-4' (880-40212-2), B-54-S-4' (880-40212-3), B-55-S-4' (880-40212-4), B-56-S-4' (880-40212-5), B-57-S-4' (880-40212-6), B-58-S-4' (880-40212-7), B-59-S-4' (880-40212-8), B-60-S-4' (880-40212-9), B-61-S-4' (880-40212-10), SW-5B-S-2' (880-40212-11), SW-5C-S-2' (880-40212-12) and SW-5D-S-2' (880-40212-13).

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74576 and analytical batch 880-74694 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 890-6221-1

Eurofins Carlsbad

Job Narrative 890-6221-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/19/2024 4:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1-S-2 (890-6221-1), B-12-5-4 (890-6221-2), B-13-5-4 (890-6221-3), B-14-5-4 (890-6221-4), B-15-5-4 (890-6221-5), B-16-5-4 (890-6221-6), B-17-5-4 (890-6221-7) and B-18-5-4 (890-6221-8).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-15-5-4 (890-6221-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-12-5-4 (890-6221-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73976 recovered above the upper control limit for Ethylbenzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-73976/64).

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.

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 890-6240-1

Eurofins Carlsbad

Job Narrative
890-6240-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/21/2024 3:26 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-4-5-2 (890-6240-1), B-25-5-4 (890-6240-2), B-26-5-4 (890-6240-3), B--27-5-4 (890-6240-4), B-28-5-4 (890-6240-5), B-29-5-4 (890-6240-6) and B-30-5-4 (890-6240-7).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-25-5-4 (890-6240-2). 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: B--27-5-4 (890-6240-4) and B-29-5-4 (890-6240-6). 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

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-73913 and analytical batch 880-73917 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-6240-A-1-E MSD). 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: (LCS 880-73913/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-73913 and analytical batch 880-73917 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-73913 and analytical batch 880-73917 were outside control limits. Non-homogeneity 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.

HPLC/IC

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 890-6265-1

Eurofins Carlsbad

Job Narrative
890-6265-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/26/2024 5:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B - 35 - S - 4 (890-6265-1), B - 36 - S - 4 (890-6265-2), SW - 5 - S - 2 (890-6265-3), B - 37 - S - 4 (890-6265-4), B - 38 - S - 4 (890-6265-5) and B - 39 - S - 4 (890-6265-6).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74272 and analytical batch 880-74273 was outside the control limits.

Method 8021B: The method blank for preparation batch 880-74272 and analytical batch 880-74273 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74242 and analytical batch 880-74320 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B - 35 - S - 4 (890-6265-1), B - 36 - S - 4 (890-6265-2), SW - 5 - S - 2 (890-6265-3), B - 37 - S - 4 (890-6265-4), B - 38 - S - 4 (890-6265-5), B - 39 - S - 4 (890-6265-6), (890-6265-A-1-G MS) and (890-6265-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74242 and analytical batch 880-74320 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The method blank for preparation batch 880-74242 and analytical batch 880-74320 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74215 and analytical batch 880-74264 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.

Eurofins Carlsbad

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Job ID: 890-6265-1 (Continued) **Eurofins Carlsbad**

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

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

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-1-S-4

Lab Sample ID: 880-39453-1

Date Collected: 02/14/24 12:00

Matrix: Solid

Date Received: 02/15/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/15/24 16:02	02/21/24 19:07	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/15/24 16:02	02/21/24 19:07	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/15/24 16:02	02/21/24 19:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/15/24 16:02	02/21/24 19:07	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/15/24 16:02	02/21/24 19:07	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/15/24 16:02	02/21/24 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	02/15/24 16:02	02/21/24 19:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/15/24 16:02	02/21/24 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.6		50.5	15.1	mg/Kg			02/19/24 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.5	J B	50.5	15.1	mg/Kg		02/15/24 17:08	02/19/24 18:08	1
Diesel Range Organics (Over C10-C28)	18.1	J	50.5	15.1	mg/Kg		02/15/24 17:08	02/19/24 18:08	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	15.1	mg/Kg		02/15/24 17:08	02/19/24 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	02/15/24 17:08	02/19/24 18:08	1
o-Terphenyl	78		70 - 130	02/15/24 17:08	02/19/24 18:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7810	F1	50.4	3.98	mg/Kg			02/15/24 14:46	10

Client Sample ID: B-2-S-4

Lab Sample ID: 880-39453-2

Date Collected: 02/14/24 12:10

Matrix: Solid

Date Received: 02/15/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		02/15/24 16:02	02/21/24 19:28	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		02/15/24 16:02	02/21/24 19:28	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		02/15/24 16:02	02/21/24 19:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		02/15/24 16:02	02/21/24 19:28	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		02/15/24 16:02	02/21/24 19:28	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		02/15/24 16:02	02/21/24 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	02/15/24 16:02	02/21/24 19:28	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/15/24 16:02	02/21/24 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.6		49.7	14.9	mg/Kg			02/19/24 18:33	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-2-S-4

Lab Sample ID: 880-39453-2

Date Collected: 02/14/24 12:10

Matrix: Solid

Date Received: 02/15/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.7	J B	49.7	14.9	mg/Kg		02/15/24 17:08	02/19/24 18:33	1
Diesel Range Organics (Over C10-C28)	15.9	J	49.7	14.9	mg/Kg		02/15/24 17:08	02/19/24 18:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		02/15/24 17:08	02/19/24 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	02/15/24 17:08	02/19/24 18:33	1
o-Terphenyl	68	S1-	70 - 130	02/15/24 17:08	02/19/24 18:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12300		99.8	7.88	mg/Kg			02/15/24 15:00	20

Client Sample ID: B-3-S-4

Lab Sample ID: 880-39453-3

Date Collected: 02/14/24 12:20

Matrix: Solid

Date Received: 02/15/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		02/15/24 16:02	02/21/24 19:49	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		02/15/24 16:02	02/21/24 19:49	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		02/15/24 16:02	02/21/24 19:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		02/15/24 16:02	02/21/24 19:49	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		02/15/24 16:02	02/21/24 19:49	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		02/15/24 16:02	02/21/24 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	02/15/24 16:02	02/21/24 19:49	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/15/24 16:02	02/21/24 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.4		49.8	14.9	mg/Kg			02/19/24 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.5	J B	49.8	14.9	mg/Kg		02/15/24 17:08	02/19/24 18:57	1
Diesel Range Organics (Over C10-C28)	16.9	J	49.8	14.9	mg/Kg		02/15/24 17:08	02/19/24 18:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		02/15/24 17:08	02/19/24 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	02/15/24 17:08	02/19/24 18:57	1
o-Terphenyl	79		70 - 130	02/15/24 17:08	02/19/24 18:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3840		24.9	1.97	mg/Kg			02/15/24 15:05	5

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-4-S-4

Lab Sample ID: 880-39453-4

Date Collected: 02/14/24 12:30

Matrix: Solid

Date Received: 02/15/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		02/15/24 16:02	02/21/24 20:10	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		02/15/24 16:02	02/21/24 20:10	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		02/15/24 16:02	02/21/24 20:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		02/15/24 16:02	02/21/24 20:10	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		02/15/24 16:02	02/21/24 20:10	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		02/15/24 16:02	02/21/24 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	02/15/24 16:02	02/21/24 20:10	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/15/24 16:02	02/21/24 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.6		49.6	14.9	mg/Kg			02/19/24 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.4	J B	49.6	14.9	mg/Kg		02/15/24 17:08	02/19/24 19:21	1
Diesel Range Organics (Over C10-C28)	17.2	J	49.6	14.9	mg/Kg		02/15/24 17:08	02/19/24 19:21	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	14.9	mg/Kg		02/15/24 17:08	02/19/24 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	02/15/24 17:08	02/19/24 19:21	1
o-Terphenyl	80		70 - 130	02/15/24 17:08	02/19/24 19:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4010		25.3	1.99	mg/Kg			02/15/24 15:09	5

Client Sample ID: B-5-S-4

Lab Sample ID: 880-39453-5

Date Collected: 02/14/24 12:40

Matrix: Solid

Date Received: 02/15/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		02/15/24 16:02	02/21/24 20:30	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		02/15/24 16:02	02/21/24 20:30	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		02/15/24 16:02	02/21/24 20:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		02/15/24 16:02	02/21/24 20:30	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		02/15/24 16:02	02/21/24 20:30	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		02/15/24 16:02	02/21/24 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	02/15/24 16:02	02/21/24 20:30	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/15/24 16:02	02/21/24 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.8		49.6	14.9	mg/Kg			02/19/24 19:44	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-5-S-4

Lab Sample ID: 880-39453-5

Date Collected: 02/14/24 12:40

Matrix: Solid

Date Received: 02/15/24 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.0	J B	49.6	14.9	mg/Kg		02/15/24 17:08	02/19/24 19:44	1
Diesel Range Organics (Over C10-C28)	16.8	J	49.6	14.9	mg/Kg		02/15/24 17:08	02/19/24 19:44	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	14.9	mg/Kg		02/15/24 17:08	02/19/24 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	02/15/24 17:08	02/19/24 19:44	1
o-Terphenyl	74		70 - 130	02/15/24 17:08	02/19/24 19:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10100		99.2	7.84	mg/Kg			02/15/24 15:14	20

Client Sample ID: B-6-S-4'

Lab Sample ID: 880-39535-1

Date Collected: 02/15/24 11:00

Matrix: Solid

Date Received: 02/16/24 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *1	0.00198	0.000381	mg/Kg		02/19/24 15:57	02/20/24 01:55	1
Toluene	<0.00198	U * - *1	0.00198	0.000451	mg/Kg		02/19/24 15:57	02/20/24 01:55	1
Ethylbenzene	<0.00198	U *+ *1	0.00198	0.000559	mg/Kg		02/19/24 15:57	02/20/24 01:55	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	0.00100	mg/Kg		02/19/24 15:57	02/20/24 01:55	1
o-Xylene	<0.00198	U *+	0.00198	0.000341	mg/Kg		02/19/24 15:57	02/20/24 01:55	1
Xylenes, Total	<0.00396	U *+	0.00396	0.00100	mg/Kg		02/19/24 15:57	02/20/24 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	215	S1+	70 - 130	02/19/24 15:57	02/20/24 01:55	1
1,4-Difluorobenzene (Surr)	71		70 - 130	02/19/24 15:57	02/20/24 01:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.6	J	49.8	14.9	mg/Kg			02/20/24 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.6	J B	49.8	14.9	mg/Kg		02/19/24 15:20	02/20/24 15:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		02/19/24 15:20	02/20/24 15:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		02/19/24 15:20	02/20/24 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/19/24 15:20	02/20/24 15:35	1
o-Terphenyl	91		70 - 130	02/19/24 15:20	02/20/24 15:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5080		50.4	3.98	mg/Kg			02/19/24 12:15	10

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-7-S-4'

Lab Sample ID: 880-39535-2

Date Collected: 02/15/24 11:10

Matrix: Solid

Date Received: 02/16/24 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		02/19/24 15:57	02/20/24 02:22	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		02/19/24 15:57	02/20/24 02:22	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		02/19/24 15:57	02/20/24 02:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		02/19/24 15:57	02/20/24 02:22	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		02/19/24 15:57	02/20/24 02:22	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		02/19/24 15:57	02/20/24 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	319	S1+	70 - 130	02/19/24 15:57	02/20/24 02:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/19/24 15:57	02/20/24 02:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.2	J	50.0	15.0	mg/Kg			02/20/24 16:05	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	16.2	J B	50.0	15.0	mg/Kg		02/19/24 15:20	02/20/24 16:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		02/19/24 15:20	02/20/24 16:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/19/24 15:20	02/20/24 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	02/19/24 15:20	02/20/24 16:05	1
o-Terphenyl	96		70 - 130	02/19/24 15:20	02/20/24 16:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		25.0	1.97	mg/Kg			02/19/24 12:21	5

Client Sample ID: SW-3-S-2'

Lab Sample ID: 880-39535-3

Date Collected: 02/15/24 14:30

Matrix: Solid

Date Received: 02/16/24 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1	0.00202	0.000388	mg/Kg		02/19/24 15:57	02/20/24 02:48	1
Toluene	<0.00202	U *- *1	0.00202	0.000460	mg/Kg		02/19/24 15:57	02/20/24 02:48	1
Ethylbenzene	<0.00202	U *+ *1	0.00202	0.000570	mg/Kg		02/19/24 15:57	02/20/24 02:48	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403	0.00102	mg/Kg		02/19/24 15:57	02/20/24 02:48	1
o-Xylene	<0.00202	U *+	0.00202	0.000347	mg/Kg		02/19/24 15:57	02/20/24 02:48	1
Xylenes, Total	<0.00403	U *+	0.00403	0.00102	mg/Kg		02/19/24 15:57	02/20/24 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	281	S1+	70 - 130	02/19/24 15:57	02/20/24 02:48	1
1,4-Difluorobenzene (Surr)	82		70 - 130	02/19/24 15:57	02/20/24 02:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	35.9	J	50.2	15.0	mg/Kg			02/20/24 17:04	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-3-S-2'

Lab Sample ID: 880-39535-3

Date Collected: 02/15/24 14:30

Matrix: Solid

Date Received: 02/16/24 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.6	J B	50.2	15.0	mg/Kg		02/19/24 15:20	02/20/24 17:04	1
Diesel Range Organics (Over C10-C28)	17.3	J B	50.2	15.0	mg/Kg		02/19/24 15:20	02/20/24 17:04	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	15.0	mg/Kg		02/19/24 15:20	02/20/24 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	02/19/24 15:20	02/20/24 17:04	1
o-Terphenyl	99		70 - 130	02/19/24 15:20	02/20/24 17:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	384		4.97	0.393	mg/Kg			02/19/24 12:28	1

Client Sample ID: SW-2-S-2'

Lab Sample ID: 880-39535-4

Date Collected: 02/15/24 12:00

Matrix: Solid

Date Received: 02/16/24 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	0.000384	mg/Kg		02/19/24 15:57	02/20/24 03:14	1
Toluene	<0.00200	U * - *1	0.00200	0.000455	mg/Kg		02/19/24 15:57	02/20/24 03:14	1
Ethylbenzene	<0.00200	U *+ *1	0.00200	0.000564	mg/Kg		02/19/24 15:57	02/20/24 03:14	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	0.00101	mg/Kg		02/19/24 15:57	02/20/24 03:14	1
o-Xylene	<0.00200	U *+	0.00200	0.000343	mg/Kg		02/19/24 15:57	02/20/24 03:14	1
Xylenes, Total	<0.00399	U *+	0.00399	0.00101	mg/Kg		02/19/24 15:57	02/20/24 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	235	S1+	70 - 130	02/19/24 15:57	02/20/24 03:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/19/24 15:57	02/20/24 03:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.1		50.4	15.1	mg/Kg			02/20/24 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.2	J B	50.4	15.1	mg/Kg		02/19/24 15:20	02/20/24 17:34	1
Diesel Range Organics (Over C10-C28)	36.9	J B	50.4	15.1	mg/Kg		02/19/24 15:20	02/20/24 17:34	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	15.1	mg/Kg		02/19/24 15:20	02/20/24 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	02/19/24 15:20	02/20/24 17:34	1
o-Terphenyl	87		70 - 130	02/19/24 15:20	02/20/24 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.3		5.03	0.397	mg/Kg			02/19/24 14:59	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-8-S-4'

Lab Sample ID: 880-39535-5

Date Collected: 02/15/24 11:30

Matrix: Solid

Date Received: 02/16/24 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *1	0.00198	0.000381	mg/Kg		02/19/24 15:57	02/20/24 03:41	1
Toluene	<0.00198	U *- *1	0.00198	0.000451	mg/Kg		02/19/24 15:57	02/20/24 03:41	1
Ethylbenzene	<0.00198	U *+ *1	0.00198	0.000559	mg/Kg		02/19/24 15:57	02/20/24 03:41	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	0.00100	mg/Kg		02/19/24 15:57	02/20/24 03:41	1
o-Xylene	<0.00198	U *+	0.00198	0.000341	mg/Kg		02/19/24 15:57	02/20/24 03:41	1
Xylenes, Total	<0.00396	U *+	0.00396	0.00100	mg/Kg		02/19/24 15:57	02/20/24 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	219	S1+	70 - 130	02/19/24 15:57	02/20/24 03:41	1
1,4-Difluorobenzene (Surr)	75		70 - 130	02/19/24 15:57	02/20/24 03:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.7	J	50.5	15.2	mg/Kg			02/20/24 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.1	J B	50.5	15.2	mg/Kg		02/19/24 15:20	02/20/24 18:03	1
Diesel Range Organics (Over C10-C28)	16.6	J B	50.5	15.2	mg/Kg		02/19/24 15:20	02/20/24 18:03	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	15.2	mg/Kg		02/19/24 15:20	02/20/24 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	02/19/24 15:20	02/20/24 18:03	1
o-Terphenyl	87		70 - 130	02/19/24 15:20	02/20/24 18:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		5.03	0.397	mg/Kg			02/19/24 12:56	1

Client Sample ID: B-9-S-4'

Lab Sample ID: 880-39535-6

Date Collected: 02/15/24 11:40

Matrix: Solid

Date Received: 02/16/24 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201	0.000387	mg/Kg		02/19/24 15:57	02/20/24 04:07	1
Toluene	<0.00201	U *- *1	0.00201	0.000459	mg/Kg		02/19/24 15:57	02/20/24 04:07	1
Ethylbenzene	<0.00201	U *+ *1	0.00201	0.000568	mg/Kg		02/19/24 15:57	02/20/24 04:07	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	0.00102	mg/Kg		02/19/24 15:57	02/20/24 04:07	1
o-Xylene	<0.00201	U *+	0.00201	0.000346	mg/Kg		02/19/24 15:57	02/20/24 04:07	1
Xylenes, Total	<0.00402	U *+	0.00402	0.00102	mg/Kg		02/19/24 15:57	02/20/24 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	02/19/24 15:57	02/20/24 04:07	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/19/24 15:57	02/20/24 04:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.2	J	49.9	15.0	mg/Kg			02/20/24 18:31	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-9-S-4'

Lab Sample ID: 880-39535-6

Date Collected: 02/15/24 11:40

Matrix: Solid

Date Received: 02/16/24 16:44

Method: SW846 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	49.9	15.0	mg/Kg		02/19/24 15:20	02/20/24 18:31	1
Diesel Range Organics (Over C10-C28)	15.7	J B	49.9	15.0	mg/Kg		02/19/24 15:20	02/20/24 18:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/19/24 15:20	02/20/24 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	02/19/24 15:20	02/20/24 18:31	1
o-Terphenyl	103		70 - 130	02/19/24 15:20	02/20/24 18:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4110		49.8	3.93	mg/Kg			02/19/24 13:03	10

Client Sample ID: B-10-S-4'

Lab Sample ID: 880-39535-7

Date Collected: 02/15/24 11:50

Matrix: Solid

Date Received: 02/16/24 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	0.000386	mg/Kg		02/19/24 15:57	02/20/24 04:33	1
Toluene	<0.00200	U * - *1	0.00200	0.000457	mg/Kg		02/19/24 15:57	02/20/24 04:33	1
Ethylbenzene	<0.00200	U *+ *1	0.00200	0.000566	mg/Kg		02/19/24 15:57	02/20/24 04:33	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	0.00101	mg/Kg		02/19/24 15:57	02/20/24 04:33	1
o-Xylene	<0.00200	U *+	0.00200	0.000345	mg/Kg		02/19/24 15:57	02/20/24 04:33	1
Xylenes, Total	<0.00401	U *+	0.00401	0.00101	mg/Kg		02/19/24 15:57	02/20/24 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	176	S1+	70 - 130	02/19/24 15:57	02/20/24 04:33	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/19/24 15:57	02/20/24 04:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.3	J	49.7	14.9	mg/Kg			02/20/24 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.3	J B	49.7	14.9	mg/Kg		02/19/24 15:20	02/20/24 18:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	14.9	mg/Kg		02/19/24 15:20	02/20/24 18:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		02/19/24 15:20	02/20/24 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	02/19/24 15:20	02/20/24 18:57	1
o-Terphenyl	87		70 - 130	02/19/24 15:20	02/20/24 18:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.3		4.99	0.394	mg/Kg			02/19/24 13:09	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-11-S-4'

Lab Sample ID: 880-39535-8

Date Collected: 02/15/24 12:00

Matrix: Solid

Date Received: 02/16/24 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *1	0.00198	0.000382	mg/Kg		02/19/24 15:57	02/20/24 04:59	1
Toluene	<0.00198	U *- *1	0.00198	0.000452	mg/Kg		02/19/24 15:57	02/20/24 04:59	1
Ethylbenzene	<0.00198	U *- *1	0.00198	0.000561	mg/Kg		02/19/24 15:57	02/20/24 04:59	1
m-Xylene & p-Xylene	<0.00397	U **	0.00397	0.00100	mg/Kg		02/19/24 15:57	02/20/24 04:59	1
o-Xylene	<0.00198	U **	0.00198	0.000341	mg/Kg		02/19/24 15:57	02/20/24 04:59	1
Xylenes, Total	<0.00397	U **	0.00397	0.00100	mg/Kg		02/19/24 15:57	02/20/24 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	206	S1+	70 - 130	02/19/24 15:57	02/20/24 04:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/19/24 15:57	02/20/24 04:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.0	J	50.0	15.0	mg/Kg			02/20/24 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.0	J B	50.0	15.0	mg/Kg		02/19/24 15:20	02/20/24 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		02/19/24 15:20	02/20/24 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/19/24 15:20	02/20/24 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/19/24 15:20	02/20/24 19:23	1
o-Terphenyl	90		70 - 130	02/19/24 15:20	02/20/24 19:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9000		100	7.93	mg/Kg			02/19/24 13:16	20

Client Sample ID: SW-8S-2'

Lab Sample ID: 880-39825-1

Date Collected: 02/22/24 12:00

Matrix: Solid

Date Received: 02/23/24 09:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000730	J B	0.00198	0.000382	mg/Kg		02/28/24 14:30	02/28/24 20:03	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		02/28/24 14:30	02/28/24 20:03	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		02/28/24 14:30	02/28/24 20:03	1
m-Xylene & p-Xylene	0.00100	J	0.00397	0.00100	mg/Kg		02/28/24 14:30	02/28/24 20:03	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		02/28/24 14:30	02/28/24 20:03	1
Xylenes, Total	0.00100	J	0.00397	0.00100	mg/Kg		02/28/24 14:30	02/28/24 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	02/28/24 14:30	02/28/24 20:03	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/28/24 14:30	02/28/24 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.6		50.1	15.0	mg/Kg			02/29/24 14:26	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-8S-2'

Lab Sample ID: 880-39825-1

Date Collected: 02/22/24 12:00

Matrix: Solid

Date Received: 02/23/24 09:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.0	J B	50.1	15.0	mg/Kg		02/28/24 10:22	02/29/24 14:26	1
Diesel Range Organics (Over C10-C28)	28.6	J B	50.1	15.0	mg/Kg		02/28/24 10:22	02/29/24 14:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	15.0	mg/Kg		02/28/24 10:22	02/29/24 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	02/28/24 10:22	02/29/24 14:26	1
o-Terphenyl	97		70 - 130	02/28/24 10:22	02/29/24 14:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.3		5.04	0.398	mg/Kg			02/23/24 14:03	1

Client Sample ID: B-31-S-4

Lab Sample ID: 880-39825-2

Date Collected: 02/22/24 12:10

Matrix: Solid

Date Received: 02/23/24 09:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000707	J B	0.00199	0.000383	mg/Kg		02/28/24 14:30	02/28/24 20:23	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		02/28/24 14:30	02/28/24 20:23	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		02/28/24 14:30	02/28/24 20:23	1
m-Xylene & p-Xylene	0.00105	J	0.00398	0.00101	mg/Kg		02/28/24 14:30	02/28/24 20:23	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		02/28/24 14:30	02/28/24 20:23	1
Xylenes, Total	0.00105	J	0.00398	0.00101	mg/Kg		02/28/24 14:30	02/28/24 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	02/28/24 14:30	02/28/24 20:23	1
1,4-Difluorobenzene (Surr)	83		70 - 130	02/28/24 14:30	02/28/24 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.8		50.4	15.1	mg/Kg			02/29/24 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.6	J B	50.4	15.1	mg/Kg		02/28/24 10:22	02/29/24 14:47	1
Diesel Range Organics (Over C10-C28)	26.2	J B	50.4	15.1	mg/Kg		02/28/24 10:22	02/29/24 14:47	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	15.1	mg/Kg		02/28/24 10:22	02/29/24 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	02/28/24 10:22	02/29/24 14:47	1
o-Terphenyl	94		70 - 130	02/28/24 10:22	02/29/24 14:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.95	0.391	mg/Kg			02/23/24 17:15	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-32-S-4

Lab Sample ID: 880-39825-3

Date Collected: 02/22/24 15:00

Matrix: Solid

Date Received: 02/23/24 09:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000762	J B	0.00198	0.000381	mg/Kg		02/28/24 14:30	02/28/24 20:44	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		02/28/24 14:30	02/28/24 20:44	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		02/28/24 14:30	02/28/24 20:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		02/28/24 14:30	02/28/24 20:44	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		02/28/24 14:30	02/28/24 20:44	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		02/28/24 14:30	02/28/24 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	02/28/24 14:30	02/28/24 20:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/28/24 14:30	02/28/24 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.6		50.3	15.1	mg/Kg			02/29/24 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.6	J B	50.3	15.1	mg/Kg		02/28/24 10:22	02/29/24 15:09	1
Diesel Range Organics (Over C10-C28)	32.0	J B	50.3	15.1	mg/Kg		02/28/24 10:22	02/29/24 15:09	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	15.1	mg/Kg		02/28/24 10:22	02/29/24 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	02/28/24 10:22	02/29/24 15:09	1
o-Terphenyl	92		70 - 130	02/28/24 10:22	02/29/24 15:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.9		4.98	0.393	mg/Kg			02/23/24 17:22	1

Client Sample ID: B-33-S-4

Lab Sample ID: 880-39888-1

Date Collected: 02/23/24 11:30

Matrix: Solid

Date Received: 02/26/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000761	J B	0.00199	0.000383	mg/Kg		02/28/24 16:29	02/29/24 04:36	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		02/28/24 16:29	02/29/24 04:36	1
Ethylbenzene	<0.00199	U F1 F2	0.00199	0.000562	mg/Kg		02/28/24 16:29	02/29/24 04:36	1
m-Xylene & p-Xylene	0.00110	J F2	0.00398	0.00100	mg/Kg		02/28/24 16:29	02/29/24 04:36	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		02/28/24 16:29	02/29/24 04:36	1
Xylenes, Total	0.00110	J	0.00398	0.00100	mg/Kg		02/28/24 16:29	02/29/24 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	02/28/24 16:29	02/29/24 04:36	1
1,4-Difluorobenzene (Surr)	82		70 - 130	02/28/24 16:29	02/29/24 04:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	124		50.4	15.1	mg/Kg			03/01/24 17:51	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-33-S-4

Lab Sample ID: 880-39888-1

Date Collected: 02/23/24 11:30

Matrix: Solid

Date Received: 02/26/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	42.6	J B	50.4	15.1	mg/Kg		02/29/24 15:18	03/01/24 17:51	1
Diesel Range Organics (Over C10-C28)	81.7	B ** *1	50.4	15.1	mg/Kg		02/29/24 15:18	03/01/24 17:51	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	15.1	mg/Kg		02/29/24 15:18	03/01/24 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	02/29/24 15:18	03/01/24 17:51	1
o-Terphenyl	95		70 - 130	02/29/24 15:18	03/01/24 17:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		5.05	0.399	mg/Kg			02/27/24 19:45	1

Client Sample ID: B-34-S-4

Lab Sample ID: 880-39888-2

Date Collected: 02/23/24 11:40

Matrix: Solid

Date Received: 02/26/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000742	J B	0.00198	0.000381	mg/Kg		02/28/24 16:29	02/29/24 04:56	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		02/28/24 16:29	02/29/24 04:56	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		02/28/24 16:29	02/29/24 04:56	1
m-Xylene & p-Xylene	0.00106	J	0.00396	0.00100	mg/Kg		02/28/24 16:29	02/29/24 04:56	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		02/28/24 16:29	02/29/24 04:56	1
Xylenes, Total	0.00106	J	0.00396	0.00100	mg/Kg		02/28/24 16:29	02/29/24 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	02/28/24 16:29	02/29/24 04:56	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	02/28/24 16:29	02/29/24 04:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.9		50.5	15.2	mg/Kg			03/01/24 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.0	J B	50.5	15.2	mg/Kg		02/29/24 15:18	03/01/24 18:12	1
Diesel Range Organics (Over C10-C28)	19.9	J B ** *1	50.5	15.2	mg/Kg		02/29/24 15:18	03/01/24 18:12	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	15.2	mg/Kg		02/29/24 15:18	03/01/24 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	02/29/24 15:18	03/01/24 18:12	1
o-Terphenyl	70		70 - 130	02/29/24 15:18	03/01/24 18:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5510		50.4	3.98	mg/Kg			02/27/24 19:53	10

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-6-S-2

Lab Sample ID: 880-40083-1

Date Collected: 02/27/24 11:40

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199	0.000383	mg/Kg		03/01/24 11:28	03/02/24 00:49	1
Toluene	<0.00199	U F2 F1	0.00199	0.000454	mg/Kg		03/01/24 11:28	03/02/24 00:49	1
Ethylbenzene	<0.00199	U F2 F1	0.00199	0.000563	mg/Kg		03/01/24 11:28	03/02/24 00:49	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398	0.00101	mg/Kg		03/01/24 11:28	03/02/24 00:49	1
o-Xylene	0.000736	J F2 F1	0.00199	0.000343	mg/Kg		03/01/24 11:28	03/02/24 00:49	1
Xylenes, Total	<0.00398	U F2 F1	0.00398	0.00101	mg/Kg		03/01/24 11:28	03/02/24 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/01/24 11:28	03/02/24 00:49	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/01/24 11:28	03/02/24 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.5	J	49.9	15.0	mg/Kg			03/01/24 08:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	15.0	mg/Kg		02/29/24 15:52	03/01/24 08:58	1
Diesel Range Organics (Over C10-C28)	33.5	J **	49.9	15.0	mg/Kg		02/29/24 15:52	03/01/24 08:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/29/24 15:52	03/01/24 08:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	02/29/24 15:52	03/01/24 08:58	1
o-Terphenyl	104		70 - 130	02/29/24 15:52	03/01/24 08:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		4.98	0.393	mg/Kg			02/29/24 11:22	1

Client Sample ID: SW-5A-S-2

Lab Sample ID: 880-40083-2

Date Collected: 02/27/24 12:10

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		03/01/24 11:28	03/02/24 01:10	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		03/01/24 11:28	03/02/24 01:10	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		03/01/24 11:28	03/02/24 01:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		03/01/24 11:28	03/02/24 01:10	1
o-Xylene	0.000418	J	0.00201	0.000345	mg/Kg		03/01/24 11:28	03/02/24 01:10	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		03/01/24 11:28	03/02/24 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/01/24 11:28	03/02/24 01:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/01/24 11:28	03/02/24 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.1		50.1	15.0	mg/Kg			03/01/24 10:04	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-5A-S-2

Lab Sample ID: 880-40083-2

Date Collected: 02/27/24 12:10

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1	15.0	mg/Kg	-	02/29/24 15:52	03/01/24 10:04	1
Diesel Range Organics (Over C10-C28)	53.1	*+	50.1	15.0	mg/Kg	-	02/29/24 15:52	03/01/24 10:04	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	15.0	mg/Kg	-	02/29/24 15:52	03/01/24 10:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/29/24 15:52	03/01/24 10:04	1
o-Terphenyl	90		70 - 130				02/29/24 15:52	03/01/24 10:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1230		49.5	3.91	mg/Kg	-		03/01/24 07:29	10

Client Sample ID: B-40-S-4

Lab Sample ID: 880-40083-3

Date Collected: 02/27/24 13:30

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg	-	03/01/24 11:28	03/02/24 01:30	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg	-	03/01/24 11:28	03/02/24 01:30	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg	-	03/01/24 11:28	03/02/24 01:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg	-	03/01/24 11:28	03/02/24 01:30	1
o-Xylene	0.000392	J	0.00202	0.000347	mg/Kg	-	03/01/24 11:28	03/02/24 01:30	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg	-	03/01/24 11:28	03/02/24 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				03/01/24 11:28	03/02/24 01:30	1
1,4-Difluorobenzene (Surr)	114		70 - 130				03/01/24 11:28	03/02/24 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	96.7		50.5	15.2	mg/Kg	-		03/01/24 10:26	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	48.4	J *1	50.5	15.2	mg/Kg	-	02/29/24 15:52	03/01/24 10:26	1
Diesel Range Organics (Over C10-C28)	48.3	J *+	50.5	15.2	mg/Kg	-	02/29/24 15:52	03/01/24 10:26	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	15.2	mg/Kg	-	02/29/24 15:52	03/01/24 10:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				02/29/24 15:52	03/01/24 10:26	1
o-Terphenyl	113		70 - 130				02/29/24 15:52	03/01/24 10:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		24.9	1.96	mg/Kg	-		03/01/24 07:35	5

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-41-S-4

Lab Sample ID: 880-40083-4

Date Collected: 02/27/24 14:00

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		03/01/24 11:28	03/02/24 01:51	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		03/01/24 11:28	03/02/24 01:51	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		03/01/24 11:28	03/02/24 01:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		03/01/24 11:28	03/02/24 01:51	1
o-Xylene	0.000415	J	0.00200	0.000345	mg/Kg		03/01/24 11:28	03/02/24 01:51	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		03/01/24 11:28	03/02/24 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/01/24 11:28	03/02/24 01:51	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/01/24 11:28	03/02/24 01:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	46.4	J	49.7	14.9	mg/Kg			03/01/24 10:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	14.9	mg/Kg		02/29/24 15:52	03/01/24 10:48	1
Diesel Range Organics (Over C10-C28)	46.4	J **	49.7	14.9	mg/Kg		02/29/24 15:52	03/01/24 10:48	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		02/29/24 15:52	03/01/24 10:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	02/29/24 15:52	03/01/24 10:48	1
o-Terphenyl	104		70 - 130	02/29/24 15:52	03/01/24 10:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4380		25.0	1.98	mg/Kg			03/01/24 07:40	5

Client Sample ID: B-42-S-4

Lab Sample ID: 880-40083-5

Date Collected: 02/27/24 14:30

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		03/01/24 11:28	03/02/24 02:11	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		03/01/24 11:28	03/02/24 02:11	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		03/01/24 11:28	03/02/24 02:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		03/01/24 11:28	03/02/24 02:11	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		03/01/24 11:28	03/02/24 02:11	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		03/01/24 11:28	03/02/24 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	03/01/24 11:28	03/02/24 02:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/01/24 11:28	03/02/24 02:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	92.5		50.0	15.0	mg/Kg			03/01/24 11:10	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-42-S-4

Lab Sample ID: 880-40083-5

Date Collected: 02/27/24 14:30

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.0	J *1	50.0	15.0	mg/Kg		02/29/24 15:52	03/01/24 11:10	1
Diesel Range Organics (Over C10-C28)	45.5	J **	50.0	15.0	mg/Kg		02/29/24 15:52	03/01/24 11:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/29/24 15:52	03/01/24 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	02/29/24 15:52	03/01/24 11:10	1
o-Terphenyl	110		70 - 130	02/29/24 15:52	03/01/24 11:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560		25.0	1.97	mg/Kg			03/01/24 07:45	5

Client Sample ID: SW-7-S-2

Lab Sample ID: 880-40083-6

Date Collected: 02/28/24 09:50

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg		03/01/24 11:28	03/02/24 02:32	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		03/01/24 11:28	03/02/24 02:32	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		03/01/24 11:28	03/02/24 02:32	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		03/01/24 11:28	03/02/24 02:32	1
o-Xylene	0.000457	J	0.00198	0.000341	mg/Kg		03/01/24 11:28	03/02/24 02:32	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		03/01/24 11:28	03/02/24 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/01/24 11:28	03/02/24 02:32	1
1,4-Difluorobenzene (Surr)	112		70 - 130	03/01/24 11:28	03/02/24 02:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	95.5		49.9	15.0	mg/Kg			03/01/24 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.9	J *1	49.9	15.0	mg/Kg		02/29/24 15:52	03/01/24 11:32	1
Diesel Range Organics (Over C10-C28)	46.6	J **	49.9	15.0	mg/Kg		02/29/24 15:52	03/01/24 11:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/29/24 15:52	03/01/24 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	02/29/24 15:52	03/01/24 11:32	1
o-Terphenyl	117		70 - 130	02/29/24 15:52	03/01/24 11:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	636		5.00	0.395	mg/Kg			02/29/24 11:50	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-7A-S-2

Lab Sample ID: 880-40083-7

Date Collected: 02/28/24 09:55

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		03/01/24 11:28	03/02/24 02:53	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		03/01/24 11:28	03/02/24 02:53	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		03/01/24 11:28	03/02/24 02:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		03/01/24 11:28	03/02/24 02:53	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		03/01/24 11:28	03/02/24 02:53	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		03/01/24 11:28	03/02/24 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/01/24 11:28	03/02/24 02:53	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/01/24 11:28	03/02/24 02:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.1		49.8	14.9	mg/Kg			03/01/24 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	43.6	J *1	49.8	14.9	mg/Kg		02/29/24 15:52	03/01/24 11:53	1
Diesel Range Organics (Over C10-C28)	42.5	J **	49.8	14.9	mg/Kg		02/29/24 15:52	03/01/24 11:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		02/29/24 15:52	03/01/24 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	02/29/24 15:52	03/01/24 11:53	1
o-Terphenyl	99		70 - 130	02/29/24 15:52	03/01/24 11:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		4.95	0.391	mg/Kg			02/29/24 11:54	1

Client Sample ID: B-43-S-4

Lab Sample ID: 880-40083-8

Date Collected: 02/28/24 10:20

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		03/01/24 11:28	03/02/24 03:13	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		03/01/24 11:28	03/02/24 03:13	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		03/01/24 11:28	03/02/24 03:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		03/01/24 11:28	03/02/24 03:13	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		03/01/24 11:28	03/02/24 03:13	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		03/01/24 11:28	03/02/24 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/01/24 11:28	03/02/24 03:13	1
1,4-Difluorobenzene (Surr)	109		70 - 130	03/01/24 11:28	03/02/24 03:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.6		50.2	15.0	mg/Kg			03/01/24 12:15	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-43-S-4

Lab Sample ID: 880-40083-8

Date Collected: 02/28/24 10:20

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.3	J *1	50.2	15.0	mg/Kg		02/29/24 15:52	03/01/24 12:15	1
Diesel Range Organics (Over C10-C28)	43.3	J **	50.2	15.0	mg/Kg		02/29/24 15:52	03/01/24 12:15	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	15.0	mg/Kg		02/29/24 15:52	03/01/24 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	02/29/24 15:52	03/01/24 12:15	1
o-Terphenyl	113		70 - 130	02/29/24 15:52	03/01/24 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500	F1	24.8	1.96	mg/Kg			03/01/24 07:49	5

Client Sample ID: B-44-S-4

Lab Sample ID: 880-40083-9

Date Collected: 02/28/24 10:25

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		03/01/24 11:28	03/02/24 03:34	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		03/01/24 11:28	03/02/24 03:34	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		03/01/24 11:28	03/02/24 03:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		03/01/24 11:28	03/02/24 03:34	1
o-Xylene	0.000347	J	0.00200	0.000343	mg/Kg		03/01/24 11:28	03/02/24 03:34	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		03/01/24 11:28	03/02/24 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	03/01/24 11:28	03/02/24 03:34	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/01/24 11:28	03/02/24 03:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.5		50.4	15.1	mg/Kg			03/01/24 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.2	J *1	50.4	15.1	mg/Kg		02/29/24 15:52	03/01/24 12:37	1
Diesel Range Organics (Over C10-C28)	43.3	J **	50.4	15.1	mg/Kg		02/29/24 15:52	03/01/24 12:37	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	15.1	mg/Kg		02/29/24 15:52	03/01/24 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	02/29/24 15:52	03/01/24 12:37	1
o-Terphenyl	99		70 - 130	02/29/24 15:52	03/01/24 12:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		4.98	0.393	mg/Kg			03/01/24 08:03	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-45-S-4

Lab Sample ID: 880-40083-10

Date Collected: 02/28/24 14:50

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		03/01/24 11:28	03/02/24 03:54	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		03/01/24 11:28	03/02/24 03:54	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		03/01/24 11:28	03/02/24 03:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		03/01/24 11:28	03/02/24 03:54	1
o-Xylene	0.000460	J	0.00198	0.000341	mg/Kg		03/01/24 11:28	03/02/24 03:54	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		03/01/24 11:28	03/02/24 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/01/24 11:28	03/02/24 03:54	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/01/24 11:28	03/02/24 03:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	83.9		50.5	15.2	mg/Kg			03/01/24 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	42.6	J *1	50.5	15.2	mg/Kg		02/29/24 15:52	03/01/24 12:59	1
Diesel Range Organics (Over C10-C28)	41.3	J **	50.5	15.2	mg/Kg		02/29/24 15:52	03/01/24 12:59	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	15.2	mg/Kg		02/29/24 15:52	03/01/24 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	02/29/24 15:52	03/01/24 12:59	1
o-Terphenyl	119		70 - 130	02/29/24 15:52	03/01/24 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		24.9	1.97	mg/Kg			03/01/24 08:07	5

Client Sample ID: B-46-S-4

Lab Sample ID: 880-40083-11

Date Collected: 02/28/24 15:10

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		03/01/24 11:28	03/02/24 05:45	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		03/01/24 11:28	03/02/24 05:45	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		03/01/24 11:28	03/02/24 05:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		03/01/24 11:28	03/02/24 05:45	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		03/01/24 11:28	03/02/24 05:45	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		03/01/24 11:28	03/02/24 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/01/24 11:28	03/02/24 05:45	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/01/24 11:28	03/02/24 05:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.6		49.6	14.9	mg/Kg			03/01/24 13:42	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-46-S-4

Lab Sample ID: 880-40083-11

Date Collected: 02/28/24 15:10

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	40.7	J *1	49.6	14.9	mg/Kg		02/29/24 15:52	03/01/24 13:42	1
Diesel Range Organics (Over C10-C28)	45.9	J **	49.6	14.9	mg/Kg		02/29/24 15:52	03/01/24 13:42	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	14.9	mg/Kg		02/29/24 15:52	03/01/24 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	02/29/24 15:52	03/01/24 13:42	1
o-Terphenyl	124		70 - 130	02/29/24 15:52	03/01/24 13:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2990		25.3	1.99	mg/Kg			03/01/24 08:20	5

Client Sample ID: B-47-S-4

Lab Sample ID: 880-40083-12

Date Collected: 02/28/24 15:20

Matrix: Solid

Date Received: 02/29/24 07:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		03/01/24 11:28	03/02/24 06:06	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		03/01/24 11:28	03/02/24 06:06	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		03/01/24 11:28	03/02/24 06:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		03/01/24 11:28	03/02/24 06:06	1
o-Xylene	0.000436	J	0.00202	0.000347	mg/Kg		03/01/24 11:28	03/02/24 06:06	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		03/01/24 11:28	03/02/24 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/01/24 11:28	03/02/24 06:06	1
1,4-Difluorobenzene (Surr)	112		70 - 130	03/01/24 11:28	03/02/24 06:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	89.1		50.3	15.1	mg/Kg			03/01/24 14:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.7	J *1	50.3	15.1	mg/Kg		02/29/24 15:52	03/01/24 14:04	1
Diesel Range Organics (Over C10-C28)	41.4	J **	50.3	15.1	mg/Kg		02/29/24 15:52	03/01/24 14:04	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	15.1	mg/Kg		02/29/24 15:52	03/01/24 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	02/29/24 15:52	03/01/24 14:04	1
o-Terphenyl	123		70 - 130	02/29/24 15:52	03/01/24 14:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2070		25.1	1.98	mg/Kg			03/01/24 08:25	5

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-48 -S-4

Lab Sample ID: 880-40159-1

Date Collected: 02/29/24 09:52

Matrix: Solid

Date Received: 03/01/24 08:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000742	J B	0.00200	0.000384	mg/Kg		03/04/24 14:35	03/05/24 13:19	1
Toluene	0.000485	J	0.00200	0.000455	mg/Kg		03/04/24 14:35	03/05/24 13:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		03/04/24 14:35	03/05/24 13:19	1
m-Xylene & p-Xylene	0.00116	J	0.00399	0.00101	mg/Kg		03/04/24 14:35	03/05/24 13:19	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		03/04/24 14:35	03/05/24 13:19	1
Xylenes, Total	0.00116	J	0.00399	0.00101	mg/Kg		03/04/24 14:35	03/05/24 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/04/24 14:35	03/05/24 13:19	1
1,4-Difluorobenzene (Surr)	77		70 - 130	03/04/24 14:35	03/05/24 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	83.1		50.1	15.0	mg/Kg			03/04/24 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.0	J *1	50.1	15.0	mg/Kg		03/04/24 10:17	03/04/24 17:59	1
Diesel Range Organics (Over C10-C28)	36.1	J	50.1	15.0	mg/Kg		03/04/24 10:17	03/04/24 17:59	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	15.0	mg/Kg		03/04/24 10:17	03/04/24 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	03/04/24 10:17	03/04/24 17:59	1
o-Terphenyl	132	S1+	70 - 130	03/04/24 10:17	03/04/24 17:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4300		49.9	3.94	mg/Kg			03/01/24 16:40	10

Client Sample ID: B-49-S-4

Lab Sample ID: 880-40159-2

Date Collected: 02/29/24 15:00

Matrix: Solid

Date Received: 03/01/24 08:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000715	J B	0.00198	0.000382	mg/Kg		03/04/24 14:35	03/05/24 13:40	1
Toluene	0.000561	J	0.00198	0.000452	mg/Kg		03/04/24 14:35	03/05/24 13:40	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		03/04/24 14:35	03/05/24 13:40	1
m-Xylene & p-Xylene	0.00109	J	0.00397	0.00100	mg/Kg		03/04/24 14:35	03/05/24 13:40	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		03/04/24 14:35	03/05/24 13:40	1
Xylenes, Total	0.00109	J	0.00397	0.00100	mg/Kg		03/04/24 14:35	03/05/24 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/04/24 14:35	03/05/24 13:40	1
1,4-Difluorobenzene (Surr)	76		70 - 130	03/04/24 14:35	03/05/24 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.7		50.4	15.1	mg/Kg			03/04/24 18:20	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-49-S-4

Lab Sample ID: 880-40159-2

Date Collected: 02/29/24 15:00

Matrix: Solid

Date Received: 03/01/24 08:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.2	J *1	50.4	15.1	mg/Kg		03/04/24 10:17	03/04/24 18:20	1
Diesel Range Organics (Over C10-C28)	32.5	J	50.4	15.1	mg/Kg		03/04/24 10:17	03/04/24 18:20	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	15.1	mg/Kg		03/04/24 10:17	03/04/24 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/04/24 10:17	03/04/24 18:20	1
o-Terphenyl	131	S1+	70 - 130	03/04/24 10:17	03/04/24 18:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8050		50.5	3.99	mg/Kg			03/01/24 16:46	10

Client Sample ID: B-50-S-4

Lab Sample ID: 880-40159-3

Date Collected: 02/29/24 15:10

Matrix: Solid

Date Received: 03/01/24 08:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000745	J B	0.00200	0.000385	mg/Kg		03/04/24 14:35	03/05/24 14:00	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		03/04/24 14:35	03/05/24 14:00	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		03/04/24 14:35	03/05/24 14:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		03/04/24 14:35	03/05/24 14:00	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		03/04/24 14:35	03/05/24 14:00	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		03/04/24 14:35	03/05/24 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	03/04/24 14:35	03/05/24 14:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/04/24 14:35	03/05/24 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.5		50.5	15.2	mg/Kg			03/04/24 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	43.4	J *1	50.5	15.2	mg/Kg		03/04/24 10:17	03/04/24 18:41	1
Diesel Range Organics (Over C10-C28)	35.1	J	50.5	15.2	mg/Kg		03/04/24 10:17	03/04/24 18:41	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	15.2	mg/Kg		03/04/24 10:17	03/04/24 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	03/04/24 10:17	03/04/24 18:41	1
o-Terphenyl	129		70 - 130	03/04/24 10:17	03/04/24 18:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7360		50.4	3.98	mg/Kg			03/01/24 16:51	10

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-51-S-4

Lab Sample ID: 880-40159-4

Date Collected: 02/29/24 15:15

Matrix: Solid

Date Received: 03/01/24 08:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000745	J B	0.00199	0.000383	mg/Kg		03/04/24 14:35	03/05/24 14:21	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		03/04/24 14:35	03/05/24 14:21	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		03/04/24 14:35	03/05/24 14:21	1
m-Xylene & p-Xylene	0.00105	J	0.00398	0.00100	mg/Kg		03/04/24 14:35	03/05/24 14:21	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		03/04/24 14:35	03/05/24 14:21	1
Xylenes, Total	0.00105	J	0.00398	0.00100	mg/Kg		03/04/24 14:35	03/05/24 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/04/24 14:35	03/05/24 14:21	1
1,4-Difluorobenzene (Surr)	74		70 - 130	03/04/24 14:35	03/05/24 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.4		50.0	15.0	mg/Kg			03/04/24 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.6	J *1	50.0	15.0	mg/Kg		03/04/24 10:17	03/04/24 19:02	1
Diesel Range Organics (Over C10-C28)	31.8	J	50.0	15.0	mg/Kg		03/04/24 10:17	03/04/24 19:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/04/24 10:17	03/04/24 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	03/04/24 10:17	03/04/24 19:02	1
o-Terphenyl	124		70 - 130	03/04/24 10:17	03/04/24 19:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10800		99.6	7.87	mg/Kg			03/01/24 17:08	20

Client Sample ID: B-52-S-4'

Lab Sample ID: 880-40212-1

Date Collected: 03/01/24 10:00

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		03/04/24 16:21	03/07/24 03:56	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		03/04/24 16:21	03/07/24 03:56	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		03/04/24 16:21	03/07/24 03:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		03/04/24 16:21	03/07/24 03:56	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		03/04/24 16:21	03/07/24 03:56	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		03/04/24 16:21	03/07/24 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/04/24 16:21	03/07/24 03:56	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/04/24 16:21	03/07/24 03:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	136		49.9	15.0	mg/Kg			03/05/24 12:25	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-52-S-4'

Lab Sample ID: 880-40212-1

Date Collected: 03/01/24 10:00

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.6	J B	49.9	15.0	mg/Kg		03/05/24 12:15	03/05/24 12:25	1
Diesel Range Organics (Over C10-C28)	96.3	B	49.9	15.0	mg/Kg		03/05/24 12:15	03/05/24 12:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/05/24 12:15	03/05/24 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/05/24 12:15	03/05/24 12:25	1
o-Terphenyl	112		70 - 130	03/05/24 12:15	03/05/24 12:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2990	F1	25.2	1.99	mg/Kg			03/04/24 15:32	5

Client Sample ID: B-53-S-4'

Lab Sample ID: 880-40212-2

Date Collected: 03/01/24 10:10

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg		03/04/24 16:21	03/07/24 04:16	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		03/04/24 16:21	03/07/24 04:16	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		03/04/24 16:21	03/07/24 04:16	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		03/04/24 16:21	03/07/24 04:16	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		03/04/24 16:21	03/07/24 04:16	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		03/04/24 16:21	03/07/24 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/04/24 16:21	03/07/24 04:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/04/24 16:21	03/07/24 04:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.6		50.1	15.0	mg/Kg			03/05/24 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.2	J B	50.1	15.0	mg/Kg		03/05/24 12:15	03/05/24 13:30	1
Diesel Range Organics (Over C10-C28)	22.4	J B	50.1	15.0	mg/Kg		03/05/24 12:15	03/05/24 13:30	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	15.0	mg/Kg		03/05/24 12:15	03/05/24 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/05/24 12:15	03/05/24 13:30	1
o-Terphenyl	110		70 - 130	03/05/24 12:15	03/05/24 13:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	894		4.97	0.393	mg/Kg			03/04/24 15:49	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-54-S-4'

Lab Sample ID: 880-40212-3

Date Collected: 03/01/24 10:20

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		03/04/24 16:21	03/07/24 04:37	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		03/04/24 16:21	03/07/24 04:37	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		03/04/24 16:21	03/07/24 04:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		03/04/24 16:21	03/07/24 04:37	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		03/04/24 16:21	03/07/24 04:37	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		03/04/24 16:21	03/07/24 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/04/24 16:21	03/07/24 04:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/04/24 16:21	03/07/24 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.2		50.1	15.0	mg/Kg			03/05/24 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.6	J B	50.1	15.0	mg/Kg		03/05/24 12:15	03/05/24 13:51	1
Diesel Range Organics (Over C10-C28)	21.6	J B	50.1	15.0	mg/Kg		03/05/24 12:15	03/05/24 13:51	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	15.0	mg/Kg		03/05/24 12:15	03/05/24 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	03/05/24 12:15	03/05/24 13:51	1
o-Terphenyl	105		70 - 130	03/05/24 12:15	03/05/24 13:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3090		49.9	3.94	mg/Kg			03/04/24 15:55	10

Client Sample ID: B-55-S-4'

Lab Sample ID: 880-40212-4

Date Collected: 03/01/24 10:30

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		03/04/24 16:21	03/07/24 04:57	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		03/04/24 16:21	03/07/24 04:57	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		03/04/24 16:21	03/07/24 04:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		03/04/24 16:21	03/07/24 04:57	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		03/04/24 16:21	03/07/24 04:57	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		03/04/24 16:21	03/07/24 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	03/04/24 16:21	03/07/24 04:57	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/04/24 16:21	03/07/24 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	89.5		50.4	15.1	mg/Kg			03/05/24 20:22	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-55-S-4'

Lab Sample ID: 880-40212-4

Date Collected: 03/01/24 10:30

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.6	J B	50.4	15.1	mg/Kg		03/05/24 12:15	03/05/24 20:22	1
Diesel Range Organics (Over C10-C28)	41.9	J B	50.4	15.1	mg/Kg		03/05/24 12:15	03/05/24 20:22	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	15.1	mg/Kg		03/05/24 12:15	03/05/24 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/05/24 12:15	03/05/24 20:22	1
o-Terphenyl	106		70 - 130	03/05/24 12:15	03/05/24 20:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		25.1	1.98	mg/Kg			03/04/24 16:00	5

Client Sample ID: B-56-S-4'

Lab Sample ID: 880-40212-5

Date Collected: 03/01/24 10:40

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		03/04/24 16:21	03/07/24 05:18	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		03/04/24 16:21	03/07/24 05:18	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		03/04/24 16:21	03/07/24 05:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		03/04/24 16:21	03/07/24 05:18	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		03/04/24 16:21	03/07/24 05:18	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		03/04/24 16:21	03/07/24 05:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/04/24 16:21	03/07/24 05:18	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/04/24 16:21	03/07/24 05:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.9		49.7	14.9	mg/Kg			03/05/24 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	45.8	J B	49.7	14.9	mg/Kg		03/05/24 12:17	03/05/24 14:13	1
Diesel Range Organics (Over C10-C28)	31.1	J	49.7	14.9	mg/Kg		03/05/24 12:17	03/05/24 14:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		03/05/24 12:17	03/05/24 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	03/05/24 12:17	03/05/24 14:13	1
o-Terphenyl	134	S1+	70 - 130	03/05/24 12:17	03/05/24 14:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		4.98	0.393	mg/Kg			03/04/24 16:06	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-57-S-4'

Lab Sample ID: 880-40212-6

Date Collected: 03/01/24 10:50

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg		03/04/24 16:21	03/07/24 05:38	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		03/04/24 16:21	03/07/24 05:38	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		03/04/24 16:21	03/07/24 05:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		03/04/24 16:21	03/07/24 05:38	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		03/04/24 16:21	03/07/24 05:38	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		03/04/24 16:21	03/07/24 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/04/24 16:21	03/07/24 05:38	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/04/24 16:21	03/07/24 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.6		50.0	15.0	mg/Kg			03/05/24 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	49.7	J B	50.0	15.0	mg/Kg		03/05/24 12:17	03/05/24 14:34	1
Diesel Range Organics (Over C10-C28)	32.9	J	50.0	15.0	mg/Kg		03/05/24 12:17	03/05/24 14:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/05/24 12:17	03/05/24 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	03/05/24 12:17	03/05/24 14:34	1
o-Terphenyl	132	S1+	70 - 130	03/05/24 12:17	03/05/24 14:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		50.4	3.98	mg/Kg			03/04/24 16:22	10

Client Sample ID: B-58-S-4'

Lab Sample ID: 880-40212-7

Date Collected: 03/01/24 11:00

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		03/04/24 16:21	03/07/24 05:59	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		03/04/24 16:21	03/07/24 05:59	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		03/04/24 16:21	03/07/24 05:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		03/04/24 16:21	03/07/24 05:59	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		03/04/24 16:21	03/07/24 05:59	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		03/04/24 16:21	03/07/24 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/04/24 16:21	03/07/24 05:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/04/24 16:21	03/07/24 05:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	77.7		49.9	15.0	mg/Kg			03/05/24 14:56	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-58-S-4'

Lab Sample ID: 880-40212-7

Date Collected: 03/01/24 11:00

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.8	J B	49.9	15.0	mg/Kg		03/05/24 12:17	03/05/24 14:56	1
Diesel Range Organics (Over C10-C28)	30.9	J	49.9	15.0	mg/Kg		03/05/24 12:17	03/05/24 14:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/05/24 12:17	03/05/24 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	03/05/24 12:17	03/05/24 14:56	1
o-Terphenyl	125		70 - 130	03/05/24 12:17	03/05/24 14:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		50.3	3.97	mg/Kg			03/04/24 16:28	10

Client Sample ID: B-59-S-4'

Lab Sample ID: 880-40212-8

Date Collected: 03/01/24 11:10

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		03/04/24 16:21	03/07/24 06:19	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		03/04/24 16:21	03/07/24 06:19	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		03/04/24 16:21	03/07/24 06:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		03/04/24 16:21	03/07/24 06:19	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		03/04/24 16:21	03/07/24 06:19	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		03/04/24 16:21	03/07/24 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/04/24 16:21	03/07/24 06:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/04/24 16:21	03/07/24 06:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.0		49.8	14.9	mg/Kg			03/05/24 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.0	J B	49.8	14.9	mg/Kg		03/05/24 12:17	03/05/24 15:18	1
Diesel Range Organics (Over C10-C28)	34.0	J	49.8	14.9	mg/Kg		03/05/24 12:17	03/05/24 15:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		03/05/24 12:17	03/05/24 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	03/05/24 12:17	03/05/24 15:18	1
o-Terphenyl	135	S1+	70 - 130	03/05/24 12:17	03/05/24 15:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5320		49.9	3.94	mg/Kg			03/04/24 16:34	10

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-60-S-4'

Lab Sample ID: 880-40212-9

Date Collected: 03/01/24 11:20

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		03/04/24 16:21	03/07/24 06:40	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		03/04/24 16:21	03/07/24 06:40	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		03/04/24 16:21	03/07/24 06:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		03/04/24 16:21	03/07/24 06:40	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		03/04/24 16:21	03/07/24 06:40	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		03/04/24 16:21	03/07/24 06:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/04/24 16:21	03/07/24 06:40	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/04/24 16:21	03/07/24 06:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	147		49.9	15.0	mg/Kg			03/05/24 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.1	J F2 B	49.9	15.0	mg/Kg		03/05/24 12:17	03/05/24 12:25	1
Diesel Range Organics (Over C10-C28)	98.8		49.9	15.0	mg/Kg		03/05/24 12:17	03/05/24 12:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		03/05/24 12:17	03/05/24 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	03/05/24 12:17	03/05/24 12:25	1
o-Terphenyl	134	S1+	70 - 130	03/05/24 12:17	03/05/24 12:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3140		25.0	1.97	mg/Kg			03/04/24 16:39	5

Client Sample ID: B-61-S-4'

Lab Sample ID: 880-40212-10

Date Collected: 03/01/24 11:30

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg		03/04/24 16:21	03/07/24 07:00	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		03/04/24 16:21	03/07/24 07:00	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		03/04/24 16:21	03/07/24 07:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		03/04/24 16:21	03/07/24 07:00	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		03/04/24 16:21	03/07/24 07:00	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		03/04/24 16:21	03/07/24 07:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/04/24 16:21	03/07/24 07:00	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/04/24 16:21	03/07/24 07:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.1		49.7	14.9	mg/Kg			03/04/24 19:23	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-61-S-4'

Lab Sample ID: 880-40212-10

Date Collected: 03/01/24 11:30

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.6	J *1	49.7	14.9	mg/Kg		03/04/24 10:17	03/04/24 19:23	1
Diesel Range Organics (Over C10-C28)	31.5	J	49.7	14.9	mg/Kg		03/04/24 10:17	03/04/24 19:23	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		03/04/24 10:17	03/04/24 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	03/04/24 10:17	03/04/24 19:23	1
o-Terphenyl	127		70 - 130	03/04/24 10:17	03/04/24 19:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3060		25.1	1.98	mg/Kg			03/04/24 16:45	5

Client Sample ID: SW-5B-S-2'

Lab Sample ID: 880-40212-11

Date Collected: 03/01/24 13:15

Matrix: Solid

Date Received: 03/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		03/04/24 16:21	03/07/24 08:23	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		03/04/24 16:21	03/07/24 08:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		03/04/24 16:21	03/07/24 08:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		03/04/24 16:21	03/07/24 08:23	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		03/04/24 16:21	03/07/24 08:23	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		03/04/24 16:21	03/07/24 08:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/04/24 16:21	03/07/24 08:23	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/04/24 16:21	03/07/24 08:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.6		50.0	15.0	mg/Kg			03/04/24 19:43	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	47.0	J *1	50.0	15.0	mg/Kg		03/04/24 10:17	03/04/24 19:43	1
Diesel Range Organics (Over C10-C28)	32.6	J	50.0	15.0	mg/Kg		03/04/24 10:17	03/04/24 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/04/24 10:17	03/04/24 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	03/04/24 10:17	03/04/24 19:43	1
o-Terphenyl	123		70 - 130	03/04/24 10:17	03/04/24 19:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	247		5.04	0.398	mg/Kg			03/04/24 14:42	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-1-S-2

Lab Sample ID: 890-6221-1

Date Collected: 02/19/24 11:30

Matrix: Solid

Date Received: 02/19/24 16:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 04:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 04:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 04:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/22/24 16:35	02/25/24 04:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 04:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/22/24 16:35	02/25/24 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	02/22/24 16:35	02/25/24 04:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130	02/22/24 16:35	02/25/24 04:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/25/24 04:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/24 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/24 17:05	02/22/24 20:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/24 17:05	02/22/24 20:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/24 17:05	02/22/24 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	02/21/24 17:05	02/22/24 20:44	1
o-Terphenyl	91		70 - 130	02/21/24 17:05	02/22/24 20:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.3		5.02		mg/Kg			02/21/24 20:44	1

Client Sample ID: B-12-5-4

Lab Sample ID: 890-6221-2

Date Collected: 02/19/24 11:40

Matrix: Solid

Date Received: 02/19/24 16:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/22/24 16:35	02/25/24 05:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/22/24 16:35	02/25/24 05:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/22/24 16:35	02/25/24 05:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/22/24 16:35	02/25/24 05:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/22/24 16:35	02/25/24 05:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/22/24 16:35	02/25/24 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	02/22/24 16:35	02/25/24 05:08	1
1,4-Difluorobenzene (Surr)	114		70 - 130	02/22/24 16:35	02/25/24 05:08	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-12-5-4

Lab Sample ID: 890-6221-2

Date Collected: 02/19/24 11:40

Matrix: Solid

Date Received: 02/19/24 16:02

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			02/25/24 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/22/24 21:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/21/24 17:05	02/22/24 21:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/21/24 17:05	02/22/24 21:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/21/24 17:05	02/22/24 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				02/21/24 17:05	02/22/24 21:08	1
o-Terphenyl	84		70 - 130				02/21/24 17:05	02/22/24 21:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4090		25.0		mg/Kg			02/21/24 20:49	5

Client Sample ID: B-13-5-4

Lab Sample ID: 890-6221-3

Date Collected: 02/19/24 11:50

Matrix: Solid

Date Received: 02/19/24 16:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 06:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 06:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 06:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/24 16:35	02/25/24 06:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 06:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/24 16:35	02/25/24 06:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				02/22/24 16:35	02/25/24 06:58	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/22/24 16:35	02/25/24 06:58	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			02/25/24 06:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/22/24 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/21/24 17:05	02/22/24 21:32	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/21/24 17:05	02/22/24 21:32	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-13-5-4

Lab Sample ID: 890-6221-3

Date Collected: 02/19/24 11:50

Matrix: Solid

Date Received: 02/19/24 16:02

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)	<50.4	U	50.4		mg/Kg		02/21/24 17:05	02/22/24 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				02/21/24 17:05	02/22/24 21:32	1
o-Terphenyl	84		70 - 130				02/21/24 17:05	02/22/24 21:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		4.98		mg/Kg			02/21/24 21:03	1

Client Sample ID: B-14-5-4

Lab Sample ID: 890-6221-4

Date Collected: 02/19/24 12:00

Matrix: Solid

Date Received: 02/19/24 16:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/22/24 16:35	02/25/24 07:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/22/24 16:35	02/25/24 07:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/22/24 16:35	02/25/24 07:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/22/24 16:35	02/25/24 07:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/22/24 16:35	02/25/24 07:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/22/24 16:35	02/25/24 07:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				02/22/24 16:35	02/25/24 07:19	1
1,4-Difluorobenzene (Surr)	109		70 - 130				02/22/24 16:35	02/25/24 07:19	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			02/25/24 07:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/22/24 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		02/21/24 17:05	02/22/24 21:55	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/21/24 17:05	02/22/24 21:55	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/21/24 17:05	02/22/24 21:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				02/21/24 17:05	02/22/24 21:55	1
o-Terphenyl	106		70 - 130				02/21/24 17:05	02/22/24 21:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.3		4.99		mg/Kg			02/21/24 21:07	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-15-5-4

Lab Sample ID: 890-6221-5

Date Collected: 02/19/24 12:10

Matrix: Solid

Date Received: 02/19/24 16:02

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		02/22/24 16:35	02/25/24 07:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:35	02/25/24 07:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:35	02/25/24 07:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/22/24 16:35	02/25/24 07:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:35	02/25/24 07:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/22/24 16:35	02/25/24 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130	02/22/24 16:35	02/25/24 07:39	1
1,4-Difluorobenzene (Surr)	125		70 - 130	02/22/24 16:35	02/25/24 07:39	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			02/25/24 07:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/22/24 22:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		02/21/24 17:05	02/22/24 22:19	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/21/24 17:05	02/22/24 22:19	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/21/24 17:05	02/22/24 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	02/21/24 17:05	02/22/24 22:19	1
o-Terphenyl	86		70 - 130	02/21/24 17:05	02/22/24 22:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		5.03		mg/Kg			02/21/24 21:12	1

Client Sample ID: B-16-5-4

Lab Sample ID: 890-6221-6

Date Collected: 02/19/24 12:20

Matrix: Solid

Date Received: 02/19/24 16:02

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		02/22/24 16:35	02/25/24 08:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/22/24 16:35	02/25/24 08:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/22/24 16:35	02/25/24 08:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/22/24 16:35	02/25/24 08:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/22/24 16:35	02/25/24 08:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/22/24 16:35	02/25/24 08:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	02/22/24 16:35	02/25/24 08:00	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/22/24 16:35	02/25/24 08:00	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-16-5-4

Lab Sample ID: 890-6221-6

Date Collected: 02/19/24 12:20

Matrix: Solid

Date Received: 02/19/24 16:02

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			02/25/24 08:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/22/24 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/21/24 17:05	02/22/24 22:42	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/21/24 17:05	02/22/24 22:42	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/21/24 17:05	02/22/24 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				02/21/24 17:05	02/22/24 22:42	1
o-Terphenyl	92		70 - 130				02/21/24 17:05	02/22/24 22:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		5.03		mg/Kg			02/21/24 21:17	1

Client Sample ID: B-17-5-4

Lab Sample ID: 890-6221-7

Date Collected: 02/19/24 12:30

Matrix: Solid

Date Received: 02/19/24 16:02

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		02/22/24 16:35	02/25/24 08:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:35	02/25/24 08:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:35	02/25/24 08:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/22/24 16:35	02/25/24 08:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:35	02/25/24 08:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/22/24 16:35	02/25/24 08:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				02/22/24 16:35	02/25/24 08:20	1
1,4-Difluorobenzene (Surr)	112		70 - 130				02/22/24 16:35	02/25/24 08:20	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			02/25/24 08:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/22/24 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		02/21/24 17:05	02/22/24 23:05	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/21/24 17:05	02/22/24 23:05	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-17-5-4

Lab Sample ID: 890-6221-7

Date Collected: 02/19/24 12:30

Matrix: Solid

Date Received: 02/19/24 16:02

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)	<50.3	U	50.3		mg/Kg		02/21/24 17:05	02/22/24 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				02/21/24 17:05	02/22/24 23:05	1
o-Terphenyl	85		70 - 130				02/21/24 17:05	02/22/24 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		25.1		mg/Kg			02/21/24 21:21	5

Client Sample ID: B-18-5-4

Lab Sample ID: 890-6221-8

Date Collected: 02/19/24 12:40

Matrix: Solid

Date Received: 02/19/24 16:02

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		02/22/24 16:35	02/25/24 08:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:35	02/25/24 08:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:35	02/25/24 08:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/22/24 16:35	02/25/24 08:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:35	02/25/24 08:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/22/24 16:35	02/25/24 08:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				02/22/24 16:35	02/25/24 08:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130				02/22/24 16:35	02/25/24 08:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/25/24 08:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/24 23:28	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		02/21/24 17:05	02/22/24 23:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/24 17:05	02/22/24 23:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/24 17:05	02/22/24 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				02/21/24 17:05	02/22/24 23:28	1
o-Terphenyl	88		70 - 130				02/21/24 17:05	02/22/24 23:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5940		49.6		mg/Kg			02/21/24 21:26	10

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-23-5-4

Lab Sample ID: 890-6230-1

Date Collected: 02/20/24 15:00

Matrix: Solid

Date Received: 02/20/24 16:27

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		02/21/24 11:59	02/22/24 19:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/24 11:59	02/22/24 19:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/24 11:59	02/22/24 19:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/24 11:59	02/22/24 19:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/24 11:59	02/22/24 19:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/24 11:59	02/22/24 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/21/24 11:59	02/22/24 19:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130	02/21/24 11:59	02/22/24 19:46	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			02/22/24 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/22/24 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		02/22/24 11:43	02/22/24 15:37	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/22/24 11:43	02/22/24 15:37	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/22/24 11:43	02/22/24 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/22/24 11:43	02/22/24 15:37	1
o-Terphenyl	89		70 - 130	02/22/24 11:43	02/22/24 15:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3590	F1	24.9		mg/Kg			02/22/24 11:42	5

Client Sample ID: B-24-5-4

Lab Sample ID: 890-6230-2

Date Collected: 02/20/24 15:10

Matrix: Solid

Date Received: 02/20/24 16:27

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		02/21/24 11:59	02/22/24 20:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/21/24 11:59	02/22/24 20:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/21/24 11:59	02/22/24 20:07	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/21/24 11:59	02/22/24 20:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/21/24 11:59	02/22/24 20:07	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/21/24 11:59	02/22/24 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	02/21/24 11:59	02/22/24 20:07	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/21/24 11:59	02/22/24 20:07	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-24-5-4

Lab Sample ID: 890-6230-2

Date Collected: 02/20/24 15:10

Matrix: Solid

Date Received: 02/20/24 16:27

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			02/22/24 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/22/24 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/22/24 11:43	02/22/24 16:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/22/24 11:43	02/22/24 16:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/22/24 11:43	02/22/24 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				02/22/24 11:43	02/22/24 16:04	1
o-Terphenyl	80		70 - 130				02/22/24 11:43	02/22/24 16:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5570		50.2		mg/Kg			02/22/24 11:56	10

Client Sample ID: B-19-5-4

Lab Sample ID: 890-6230-3

Date Collected: 02/20/24 12:00

Matrix: Solid

Date Received: 02/20/24 16:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 20:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 20:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 20:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/24 11:59	02/22/24 20:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 20:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/24 11:59	02/22/24 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				02/21/24 11:59	02/22/24 20:28	1
1,4-Difluorobenzene (Surr)	104		70 - 130				02/21/24 11:59	02/22/24 20:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/22/24 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/22/24 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/22/24 11:43	02/22/24 16:32	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/22/24 11:43	02/22/24 16:32	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-19-5-4

Lab Sample ID: 890-6230-3

Date Collected: 02/20/24 12:00

Matrix: Solid

Date Received: 02/20/24 16:27

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)	<50.4	U	50.4		mg/Kg		02/22/24 11:43	02/22/24 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				02/22/24 11:43	02/22/24 16:32	1
o-Terphenyl	81		70 - 130				02/22/24 11:43	02/22/24 16:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2040		25.2		mg/Kg			02/22/24 12:00	5

Client Sample ID: B-20-5-4

Lab Sample ID: 890-6230-4

Date Collected: 02/20/24 12:10

Matrix: Solid

Date Received: 02/20/24 16:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/24 11:59	02/22/24 20:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/24 11:59	02/22/24 20:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/24 11:59	02/22/24 20:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/24 11:59	02/22/24 20:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/24 11:59	02/22/24 20:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/24 11:59	02/22/24 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				02/21/24 11:59	02/22/24 20:49	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/21/24 11:59	02/22/24 20:49	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			02/22/24 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/22/24 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/22/24 11:43	02/22/24 16:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/22/24 11:43	02/22/24 16:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/22/24 11:43	02/22/24 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				02/22/24 11:43	02/22/24 16:59	1
o-Terphenyl	94		70 - 130				02/22/24 11:43	02/22/24 16:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2310		25.1		mg/Kg			02/22/24 12:05	5

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-21-5-4

Lab Sample ID: 890-6230-5

Date Collected: 02/20/24 12:20

Matrix: Solid

Date Received: 02/20/24 16:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 22:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 22:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 22:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/24 11:59	02/22/24 22:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 22:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/24 11:59	02/22/24 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/21/24 11:59	02/22/24 22:15	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/21/24 11:59	02/22/24 22:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/22/24 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/22/24 17:26	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	<49.7	U	49.7		mg/Kg		02/22/24 11:43	02/22/24 17:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/22/24 11:43	02/22/24 17:26	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/22/24 11:43	02/22/24 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	02/22/24 11:43	02/22/24 17:26	1
o-Terphenyl	84		70 - 130	02/22/24 11:43	02/22/24 17:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3070		25.0		mg/Kg			02/22/24 12:10	5

Client Sample ID: B-22--5-4

Lab Sample ID: 890-6230-6

Date Collected: 02/20/24 12:30

Matrix: Solid

Date Received: 02/20/24 16:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/24 11:59	02/22/24 22:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/24 11:59	02/22/24 22:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/24 11:59	02/22/24 22:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/24 11:59	02/22/24 22:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/24 11:59	02/22/24 22:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/24 11:59	02/22/24 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	02/21/24 11:59	02/22/24 22:36	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/21/24 11:59	02/22/24 22:36	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-22--5-4

Lab Sample ID: 890-6230-6

Date Collected: 02/20/24 12:30

Matrix: Solid

Date Received: 02/20/24 16:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/24 22:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/22/24 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		02/22/24 11:43	02/22/24 17:51	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/22/24 11:43	02/22/24 17:51	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/22/24 11:43	02/22/24 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				02/22/24 11:43	02/22/24 17:51	1
o-Terphenyl	88		70 - 130				02/22/24 11:43	02/22/24 17:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3280		25.0		mg/Kg			02/22/24 12:24	5

Client Sample ID: SW-4-5-2

Lab Sample ID: 890-6240-1

Date Collected: 02/21/24 11:20

Matrix: Solid

Date Received: 02/21/24 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/23/24 11:00	02/23/24 15:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/23/24 11:00	02/23/24 15:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/23/24 11:00	02/23/24 15:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/23/24 11:00	02/23/24 15:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/23/24 11:00	02/23/24 15:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/23/24 11:00	02/23/24 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				02/23/24 11:00	02/23/24 15:37	1
1,4-Difluorobenzene (Surr)	85		70 - 130				02/23/24 11:00	02/23/24 15:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/24 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/23/24 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6		mg/Kg		02/23/24 09:41	02/23/24 14:42	1
Diesel Range Organics (Over C10-C28)	<49.6	U F1	49.6		mg/Kg		02/23/24 09:41	02/23/24 14:42	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-4-5-2

Lab Sample ID: 890-6240-1

Date Collected: 02/21/24 11:20

Matrix: Solid

Date Received: 02/21/24 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/23/24 09:41	02/23/24 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				02/23/24 09:41	02/23/24 14:42	1
o-Terphenyl	92		70 - 130				02/23/24 09:41	02/23/24 14:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		4.95		mg/Kg			02/23/24 15:39	1

Client Sample ID: B-25-5-4

Lab Sample ID: 890-6240-2

Date Collected: 02/21/24 11:30

Matrix: Solid

Date Received: 02/21/24 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 16:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 16:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 16:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/23/24 11:00	02/23/24 16:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 16:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/23/24 11:00	02/23/24 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				02/23/24 11:00	02/23/24 16:04	1
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130				02/23/24 11:00	02/23/24 16:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/23/24 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/23/24 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5		mg/Kg		02/23/24 09:41	02/23/24 15:53	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/23/24 09:41	02/23/24 15:53	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/23/24 09:41	02/23/24 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				02/23/24 09:41	02/23/24 15:53	1
o-Terphenyl	91		70 - 130				02/23/24 09:41	02/23/24 15:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	647		4.99		mg/Kg			02/23/24 15:59	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-26-5-4

Lab Sample ID: 890-6240-3

Date Collected: 02/21/24 11:40

Matrix: Solid

Date Received: 02/21/24 15:26

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		02/23/24 11:00	02/23/24 16:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/23/24 11:00	02/23/24 16:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/23/24 11:00	02/23/24 16:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/23/24 11:00	02/23/24 16:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/23/24 11:00	02/23/24 16:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/23/24 11:00	02/23/24 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	02/23/24 11:00	02/23/24 16:31	1
1,4-Difluorobenzene (Surr)	125		70 - 130	02/23/24 11:00	02/23/24 16:31	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			02/23/24 16:31	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			02/23/24 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		02/23/24 09:41	02/23/24 16:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/23/24 09:41	02/23/24 16:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/24 09:41	02/23/24 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	02/23/24 09:41	02/23/24 16:16	1
o-Terphenyl	75		70 - 130	02/23/24 09:41	02/23/24 16:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		5.01		mg/Kg			02/23/24 16:06	1

Client Sample ID: B--27-5-4

Lab Sample ID: 890-6240-4

Date Collected: 02/21/24 11:50

Matrix: Solid

Date Received: 02/21/24 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 16:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 16:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 16:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/23/24 11:00	02/23/24 16:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 16:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/23/24 11:00	02/23/24 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	02/23/24 11:00	02/23/24 16:58	1
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130	02/23/24 11:00	02/23/24 16:58	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B--27-5-4

Lab Sample ID: 890-6240-4

Date Collected: 02/21/24 11:50

Matrix: Solid

Date Received: 02/21/24 15:26

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/23/24 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/23/24 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		02/23/24 09:41	02/23/24 16:39	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/23/24 09:41	02/23/24 16:39	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/23/24 09:41	02/23/24 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				02/23/24 09:41	02/23/24 16:39	1
o-Terphenyl	78		70 - 130				02/23/24 09:41	02/23/24 16:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	860		5.05		mg/Kg			02/23/24 16:13	1

Client Sample ID: B-28-5-4

Lab Sample ID: 890-6240-5

Date Collected: 02/21/24 12:00

Matrix: Solid

Date Received: 02/21/24 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/23/24 11:00	02/23/24 17:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/23/24 11:00	02/23/24 17:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/23/24 11:00	02/23/24 17:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/23/24 11:00	02/23/24 17:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/23/24 11:00	02/23/24 17:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/23/24 11:00	02/23/24 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				02/23/24 11:00	02/23/24 17:25	1
1,4-Difluorobenzene (Surr)	112		70 - 130				02/23/24 11:00	02/23/24 17:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/24 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/23/24 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		02/23/24 09:41	02/23/24 17:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/23/24 09:41	02/23/24 17:03	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-28-5-4

Lab Sample ID: 890-6240-5

Date Collected: 02/21/24 12:00

Matrix: Solid

Date Received: 02/21/24 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/23/24 09:41	02/23/24 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				02/23/24 09:41	02/23/24 17:03	1
o-Terphenyl	106		70 - 130				02/23/24 09:41	02/23/24 17:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7700		50.0		mg/Kg			02/23/24 16:20	10

Client Sample ID: B-29-5-4

Lab Sample ID: 890-6240-6

Date Collected: 02/21/24 12:10

Matrix: Solid

Date Received: 02/21/24 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/23/24 11:00	02/23/24 17:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/23/24 11:00	02/23/24 17:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/23/24 11:00	02/23/24 17:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/23/24 11:00	02/23/24 17:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/23/24 11:00	02/23/24 17:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/23/24 11:00	02/23/24 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				02/23/24 11:00	02/23/24 17:52	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130				02/23/24 11:00	02/23/24 17:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/23/24 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/24 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		02/23/24 09:41	02/23/24 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/24 09:41	02/23/24 17:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/24 09:41	02/23/24 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				02/23/24 09:41	02/23/24 17:27	1
o-Terphenyl	85		70 - 130				02/23/24 09:41	02/23/24 17:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3480		24.9		mg/Kg			02/23/24 16:27	5

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-30-5-4

Lab Sample ID: 890-6240-7

Date Collected: 02/21/24 12:20

Matrix: Solid

Date Received: 02/21/24 15:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 18:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 18:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 18:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/23/24 11:00	02/23/24 18:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 11:00	02/23/24 18:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/23/24 11:00	02/23/24 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/23/24 11:00	02/23/24 18:19	1
1,4-Difluorobenzene (Surr)	121		70 - 130	02/23/24 11:00	02/23/24 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			02/23/24 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/23/24 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *1	50.2		mg/Kg		02/23/24 09:41	02/23/24 17:51	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/23/24 09:41	02/23/24 17:51	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/23/24 09:41	02/23/24 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	02/23/24 09:41	02/23/24 17:51	1
o-Terphenyl	70		70 - 130	02/23/24 09:41	02/23/24 17:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5390		50.4		mg/Kg			02/23/24 16:34	10

Client Sample ID: B - 35 - S - 4

Lab Sample ID: 890-6265-1

Date Collected: 02/26/24 10:35

Matrix: Solid

Date Received: 02/26/24 17:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000771	J B	0.00199	0.000383	mg/Kg		02/28/24 14:30	02/28/24 17:59	1
Toluene	0.000605	J	0.00199	0.000454	mg/Kg		02/28/24 14:30	02/28/24 17:59	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		02/28/24 14:30	02/28/24 17:59	1
m-Xylene & p-Xylene	0.00140	J	0.00398	0.00101	mg/Kg		02/28/24 14:30	02/28/24 17:59	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		02/28/24 14:30	02/28/24 17:59	1
Xylenes, Total	0.00140	J	0.00398	0.00101	mg/Kg		02/28/24 14:30	02/28/24 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	02/28/24 14:30	02/28/24 17:59	1
1,4-Difluorobenzene (Surr)	85		70 - 130	02/28/24 14:30	02/28/24 17:59	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B - 35 - S - 4

Lab Sample ID: 890-6265-1

Date Collected: 02/26/24 10:35

Matrix: Solid

Date Received: 02/26/24 17:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.6		49.7	14.9	mg/Kg			02/29/24 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.3	J F1 B	49.7	14.9	mg/Kg		02/29/24 10:22	02/29/24 11:35	1
Diesel Range Organics (Over C10-C28)	34.3	J F1 B	49.7	14.9	mg/Kg		02/29/24 10:22	02/29/24 11:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		02/29/24 10:22	02/29/24 11:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	253	S1+	70 - 130				02/29/24 10:22	02/29/24 11:35	1
o-Terphenyl	203	S1+	70 - 130				02/29/24 10:22	02/29/24 11:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		25.2	1.99	mg/Kg			02/28/24 14:10	5

Client Sample ID: B - 36 - S - 4

Lab Sample ID: 890-6265-2

Date Collected: 02/26/24 10:45

Matrix: Solid

Date Received: 02/26/24 17:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000705	J B	0.00198	0.000381	mg/Kg		02/28/24 14:30	02/28/24 18:19	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		02/28/24 14:30	02/28/24 18:19	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		02/28/24 14:30	02/28/24 18:19	1
m-Xylene & p-Xylene	0.00103	J	0.00396	0.00100	mg/Kg		02/28/24 14:30	02/28/24 18:19	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		02/28/24 14:30	02/28/24 18:19	1
Xylenes, Total	0.00103	J	0.00396	0.00100	mg/Kg		02/28/24 14:30	02/28/24 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				02/28/24 14:30	02/28/24 18:19	1
1,4-Difluorobenzene (Surr)	78		70 - 130				02/28/24 14:30	02/28/24 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.5		50.5	15.2	mg/Kg			02/29/24 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.1	J B	50.5	15.2	mg/Kg		02/29/24 10:22	02/29/24 12:39	1
Diesel Range Organics (Over C10-C28)	33.4	J B	50.5	15.2	mg/Kg		02/29/24 10:22	02/29/24 12:39	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	15.2	mg/Kg		02/29/24 10:22	02/29/24 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	195	S1+	70 - 130				02/29/24 10:22	02/29/24 12:39	1
o-Terphenyl	168	S1+	70 - 130				02/29/24 10:22	02/29/24 12:39	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B - 36 - S - 4

Lab Sample ID: 890-6265-2

Date Collected: 02/26/24 10:45

Matrix: Solid

Date Received: 02/26/24 17:20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3490		25.2	1.99	mg/Kg			02/28/24 14:15	5

Client Sample ID: SW - 5 - S - 2

Lab Sample ID: 890-6265-3

Date Collected: 02/26/24 13:30

Matrix: Solid

Date Received: 02/26/24 17:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000730	J B	0.00201	0.000387	mg/Kg		02/28/24 14:30	02/28/24 18:40	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		02/28/24 14:30	02/28/24 18:40	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		02/28/24 14:30	02/28/24 18:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		02/28/24 14:30	02/28/24 18:40	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		02/28/24 14:30	02/28/24 18:40	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		02/28/24 14:30	02/28/24 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/28/24 14:30	02/28/24 18:40	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/28/24 14:30	02/28/24 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.3		49.7	14.9	mg/Kg			02/29/24 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	14.9	mg/Kg		02/29/24 10:22	02/29/24 13:01	1
Diesel Range Organics (Over C10-C28)	79.3	B	49.7	14.9	mg/Kg		02/29/24 10:22	02/29/24 13:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		02/29/24 10:22	02/29/24 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	198	S1+	70 - 130	02/29/24 10:22	02/29/24 13:01	1
o-Terphenyl	167	S1+	70 - 130	02/29/24 10:22	02/29/24 13:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	738		5.05	0.399	mg/Kg			02/28/24 14:19	1

Client Sample ID: B - 37 - S - 4

Lab Sample ID: 890-6265-4

Date Collected: 02/26/24 13:40

Matrix: Solid

Date Received: 02/26/24 17:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000740	J B	0.00202	0.000388	mg/Kg		02/28/24 14:30	02/28/24 19:01	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		02/28/24 14:30	02/28/24 19:01	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		02/28/24 14:30	02/28/24 19:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		02/28/24 14:30	02/28/24 19:01	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		02/28/24 14:30	02/28/24 19:01	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		02/28/24 14:30	02/28/24 19:01	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B - 37 - S - 4

Lab Sample ID: 890-6265-4

Date Collected: 02/26/24 13:40

Matrix: Solid

Date Received: 02/26/24 17:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/28/24 14:30	02/28/24 19:01	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/28/24 14:30	02/28/24 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.9	J	49.9	15.0	mg/Kg			02/29/24 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	15.0	mg/Kg		02/29/24 10:22	02/29/24 13:22	1
Diesel Range Organics (Over C10-C28)	44.9	J B	49.9	15.0	mg/Kg		02/29/24 10:22	02/29/24 13:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		02/29/24 10:22	02/29/24 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	224	S1+	70 - 130	02/29/24 10:22	02/29/24 13:22	1
o-Terphenyl	186	S1+	70 - 130	02/29/24 10:22	02/29/24 13:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		5.01	0.396	mg/Kg			02/28/24 14:24	1

Client Sample ID: B - 38 - S - 4

Lab Sample ID: 890-6265-5

Date Collected: 02/26/24 13:50

Matrix: Solid

Date Received: 02/26/24 17:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000754	J B	0.00200	0.000386	mg/Kg		02/28/24 14:30	02/28/24 19:21	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		02/28/24 14:30	02/28/24 19:21	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		02/28/24 14:30	02/28/24 19:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		02/28/24 14:30	02/28/24 19:21	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		02/28/24 14:30	02/28/24 19:21	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		02/28/24 14:30	02/28/24 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	02/28/24 14:30	02/28/24 19:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/28/24 14:30	02/28/24 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.7		49.7	14.9	mg/Kg			02/29/24 13:43	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	45.0	J B	49.7	14.9	mg/Kg		02/29/24 10:22	02/29/24 13:43	1
Diesel Range Organics (Over C10-C28)	35.7	J B	49.7	14.9	mg/Kg		02/29/24 10:22	02/29/24 13:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	14.9	mg/Kg		02/29/24 10:22	02/29/24 13:43	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B - 38 - S - 4

Lab Sample ID: 890-6265-5

Date Collected: 02/26/24 13:50

Matrix: Solid

Date Received: 02/26/24 17:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	247	S1+	70 - 130	02/29/24 10:22	02/29/24 13:43	1
o-Terphenyl	206	S1+	70 - 130	02/29/24 10:22	02/29/24 13:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3330		49.9	3.94	mg/Kg			02/28/24 14:38	10

Client Sample ID: B - 39 - S - 4

Lab Sample ID: 890-6265-6

Date Collected: 02/26/24 16:30

Matrix: Solid

Date Received: 02/26/24 17:20

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000707	J B	0.00200	0.000384	mg/Kg		02/28/24 14:30	02/28/24 19:42	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		02/28/24 14:30	02/28/24 19:42	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		02/28/24 14:30	02/28/24 19:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		02/28/24 14:30	02/28/24 19:42	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		02/28/24 14:30	02/28/24 19:42	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		02/28/24 14:30	02/28/24 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	02/28/24 14:30	02/28/24 19:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/28/24 14:30	02/28/24 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	37.7	J	50.0	15.0	mg/Kg			02/29/24 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		02/29/24 10:22	02/29/24 14:05	1
Diesel Range Organics (Over C10-C28)	37.7	J B	50.0	15.0	mg/Kg		02/29/24 10:22	02/29/24 14:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/29/24 10:22	02/29/24 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	240	S1+	70 - 130	02/29/24 10:22	02/29/24 14:05	1
o-Terphenyl	199	S1+	70 - 130	02/29/24 10:22	02/29/24 14:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3740		25.0	1.97	mg/Kg			02/28/24 14:43	5

Eurofins Carlsbad

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-39453-1	B-1-S-4	64 S1-	103
880-39453-2	B-2-S-4	83	99
880-39453-3	B-3-S-4	88	91
880-39453-4	B-4-S-4	84	84
880-39453-5	B-5-S-4	76	84
880-39535-1	B-6-S-4'	215 S1+	71
880-39535-1 MS	B-6-S-4'	144 S1+	72
880-39535-1 MSD	B-6-S-4'	156 S1+	77
880-39535-2	B-7-S-4'	319 S1+	105
880-39535-3	SW-3-S-2'	281 S1+	82
880-39535-4	SW-2-S-2'	235 S1+	86
880-39535-5	B-8-S-4'	219 S1+	75
880-39535-6	B-9-S-4'	134 S1+	96
880-39535-7	B-10-S-4'	176 S1+	79
880-39535-8	B-11-S-4'	206 S1+	106
880-39825-1	SW-8S-2'	79	86
880-39825-2	B-31-S-4	91	83
880-39825-3	B-32-S-4	80	95
880-39888-1	B-33-S-4	83	82
880-39888-1 MS	B-33-S-4	124	111
880-39888-1 MSD	B-33-S-4	112	102
880-39888-2	B-34-S-4	80	65 S1-
880-40083-1	SW-6-S-2	93	101
880-40083-2	SW-5A-S-2	108	102
880-40083-3	B-40-S-4	115	114
880-40083-4	B-41-S-4	113	108
880-40083-5	B-42-S-4	122	100
880-40083-6	SW-7-S-2	115	112
880-40083-7	SW-7A-S-2	107	106
880-40083-8	B-43-S-4	111	109
880-40083-9	B-44-S-4	118	104
880-40083-10	B-45-S-4	107	103
880-40083-11	B-46-S-4	84	103
880-40083-12	B-47-S-4	96	112
880-40159-1	B-48 -S-4	100	77
880-40159-2	B-49-S-4	100	76
880-40159-3	B-50-S-4	86	90
880-40159-4	B-51-S-4	94	74
880-40212-1	B-52-S-4'	116	92
880-40212-1 MS	B-52-S-4'	106	92
880-40212-1 MSD	B-52-S-4'	115	92
880-40212-2	B-53-S-4'	114	98
880-40212-3	B-54-S-4'	115	97
880-40212-4	B-55-S-4'	120	93
880-40212-5	B-56-S-4'	110	94
880-40212-6	B-57-S-4'	113	97
880-40212-7	B-58-S-4'	111	96
880-40212-8	B-59-S-4'	114	97
880-40212-9	B-60-S-4'	114	91

Eurofins Carlsbad

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 890-6265-1

Project/Site: SRO SWD #104 EDDY COUNTY

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)
880-40212-10	B-61-S-4'	111	95
880-40212-11	SW-5B-S-2'	113	97
890-6221-1	SW-1-S-2	122	108
890-6221-2	B-12-5-4	137 S1+	114
890-6221-3	B-13-5-4	97	106
890-6221-4	B-14-5-4	103	109
890-6221-5	B-15-5-4	177 S1+	125
890-6221-6	B-16-5-4	126	106
890-6221-7	B-17-5-4	122	112
890-6221-8	B-18-5-4	117	101
890-6230-1	B-23-5-4	107	108
890-6230-2	B-24-5-4	101	106
890-6230-3	B-19-5-4	97	104
890-6230-4	B-20-5-4	98	106
890-6230-5	B-21-5-4	95	105
890-6230-6	B-22--5-4	105	109
890-6240-1	SW-4-5-2	123	85
890-6240-2	B-25-5-4	126	136 S1+
890-6240-3	B-26-5-4	126	125
890-6240-4	B--27-5-4	114	139 S1+
890-6240-5	B-28-5-4	130	112
890-6240-6	B-29-5-4	135 S1+	131 S1+
890-6240-7	B-30-5-4	116	121
890-6265-1	B - 35 - S - 4	87	85
890-6265-1 MS	B - 35 - S - 4	100	125
890-6265-1 MSD	B - 35 - S - 4	104	110
890-6265-2	B - 36 - S - 4	92	78
890-6265-3	SW - 5 - S - 2	97	86
890-6265-4	B - 37 - S - 4	95	95
890-6265-5	B - 38 - S - 4	83	93
890-6265-6	B - 39 - S - 4	82	88
LCS 880-73291/1-A	Lab Control Sample	84	111
LCS 880-73562/1-A	Lab Control Sample	160 S1+	72
LCS 880-73775/1-A	Lab Control Sample	109	103
LCS 880-73881/1-A	Lab Control Sample	108	117
LCS 880-73892/1-A	Lab Control Sample	101	100
LCS 880-74272/1-A	Lab Control Sample	105	96
LCS 880-74289/1-A	Lab Control Sample	120	95
LCS 880-74467/1-A	Lab Control Sample	106	100
LCS 880-74677/1-A	Lab Control Sample	105	106
LCS 880-74701/1-A	Lab Control Sample	114	93
LCSD 880-73291/2-A	Lab Control Sample Dup	96	126
LCSD 880-73562/2-A	Lab Control Sample Dup	200 S1+	81
LCSD 880-73775/2-A	Lab Control Sample Dup	112	102
LCSD 880-73881/2-A	Lab Control Sample Dup	136 S1+	123
LCSD 880-73892/2-A	Lab Control Sample Dup	122	102
LCSD 880-74272/2-A	Lab Control Sample Dup	98	122
LCSD 880-74289/2-A	Lab Control Sample Dup	128	113
LCSD 880-74467/2-A	Lab Control Sample Dup	108	103
LCSD 880-74677/2-A	Lab Control Sample Dup	110	112

Eurofins Carlsbad

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 890-6265-1

Project/Site: SRO SWD #104 EDDY COUNTY

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)
LCSD 880-74701/2-A	Lab Control Sample Dup	115	94
MB 880-73272/5-A	Method Blank	152 S1+	83
MB 880-73289/5-A	Method Blank	62 S1-	132 S1+
MB 880-73291/5-A	Method Blank	65 S1-	104
MB 880-73562/5-A	Method Blank	195 S1+	122
MB 880-73750/5-A	Method Blank	129	116
MB 880-73775/5-A	Method Blank	76	101
MB 880-73881/5-A	Method Blank	70	113
MB 880-73892/5-A	Method Blank	129	111
MB 880-74272/5-A	Method Blank	68 S1-	98
MB 880-74289/5-A	Method Blank	73	90
MB 880-74450/5-A	Method Blank	128	135 S1+
MB 880-74467/5-A	Method Blank	129	125
MB 880-74677/5-A	Method Blank	76	89
MB 880-74688/5-A	Method Blank	77	94
MB 880-74701/5-A	Method Blank	80	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-39453-1	B-1-S-4	75	78
880-39453-2	B-2-S-4	66 S1-	68 S1-
880-39453-3	B-3-S-4	76	79
880-39453-4	B-4-S-4	77	80
880-39453-5	B-5-S-4	70	74
880-39535-1	B-6-S-4'	85	91
880-39535-2	B-7-S-4'	91	96
880-39535-3	SW-3-S-2'	98	99
880-39535-4	SW-2-S-2'	86	87
880-39535-5	B-8-S-4'	84	87
880-39535-6	B-9-S-4'	95	103
880-39535-7	B-10-S-4'	84	87
880-39535-8	B-11-S-4'	85	90
880-39825-1	SW-8S-2'	110	97
880-39825-2	B-31-S-4	107	94
880-39825-3	B-32-S-4	102	92
880-39888-1	B-33-S-4	109	95
880-39888-2	B-34-S-4	80	70
880-40083-1	SW-6-S-2	97	104
880-40083-2	SW-5A-S-2	92	90
880-40083-3	B-40-S-4	109	113
880-40083-4	B-41-S-4	100	104
880-40083-5	B-42-S-4	105	110
880-40083-6	SW-7-S-2	110	117

Eurofins Carlsbad

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 890-6265-1

Project/Site: SRO SWD #104 EDDY COUNTY

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-40083-7	SW-7A-S-2	91	99
880-40083-8	B-43-S-4	106	113
880-40083-9	B-44-S-4	91	99
880-40083-10	B-45-S-4	109	119
880-40083-11	B-46-S-4	113	124
880-40083-12	B-47-S-4	111	123
880-40159-1	B-48 -S-4	122	132 S1+
880-40159-2	B-49-S-4	119	131 S1+
880-40159-3	B-50-S-4	120	129
880-40159-4	B-51-S-4	114	124
880-40212-1	B-52-S-4'	119	112
880-40212-1 MS	B-52-S-4'	109	94
880-40212-1 MSD	B-52-S-4'	111	97
880-40212-2	B-53-S-4'	119	110
880-40212-3	B-54-S-4'	118	105
880-40212-4	B-55-S-4'	119	106
880-40212-5	B-56-S-4'	125	134 S1+
880-40212-6	B-57-S-4'	124	132 S1+
880-40212-7	B-58-S-4'	117	125
880-40212-8	B-59-S-4'	124	135 S1+
880-40212-9	B-60-S-4'	123	134 S1+
880-40212-9 MS	B-60-S-4'	118	115
880-40212-9 MSD	B-60-S-4'	131 S1+	132 S1+
880-40212-10	B-61-S-4'	116	127
880-40212-11	SW-5B-S-2'	114	123
890-6221-1	SW-1-S-2	87	91
890-6221-2	B-12-5-4	81	84
890-6221-3	B-13-5-4	78	84
890-6221-4	B-14-5-4	99	106
890-6221-5	B-15-5-4	80	86
890-6221-6	B-16-5-4	87	92
890-6221-7	B-17-5-4	80	85
890-6221-8	B-18-5-4	84	88
890-6230-1	B-23-5-4	85	89
890-6230-2	B-24-5-4	77	80
890-6230-3	B-19-5-4	78	81
890-6230-4	B-20-5-4	89	94
890-6230-5	B-21-5-4	81	84
890-6230-6	B-22--5-4	84	88
890-6240-1	SW-4-5-2	108	92
890-6240-1 MS	SW-4-5-2	100	76
890-6240-1 MSD	SW-4-5-2	87	67 S1-
890-6240-2	B-25-5-4	106	91
890-6240-3	B-26-5-4	94	75
890-6240-4	B--27-5-4	96	78
890-6240-5	B-28-5-4	126	106
890-6240-6	B-29-5-4	106	85
890-6240-7	B-30-5-4	83	70
890-6265-1	B - 35 - S - 4	253 S1+	203 S1+
890-6265-1 MS	B - 35 - S - 4	196 S1+	156 S1+

Eurofins Carlsbad

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 890-6265-1

Project/Site: SRO SWD #104 EDDY COUNTY

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-6265-1 MSD	B - 35 - S - 4	201 S1+	161 S1+
890-6265-2	B - 36 - S - 4	195 S1+	168 S1+
890-6265-3	SW - 5 - S - 2	198 S1+	167 S1+
890-6265-4	B - 37 - S - 4	224 S1+	186 S1+
890-6265-5	B - 38 - S - 4	247 S1+	206 S1+
890-6265-6	B - 39 - S - 4	240 S1+	199 S1+
LCS 880-73296/2-A	Lab Control Sample	102	115
LCS 880-73548/2-A	Lab Control Sample	73	82
LCS 880-73703/2-A	Lab Control Sample	97	113
LCS 880-73913/2-A	Lab Control Sample	86	67 S1-
LCS 880-74242/2-A	Lab Control Sample	124	126
LCS 880-74398/2-A	Lab Control Sample	155 S1+	159 S1+
LCS 880-74402/2-A	Lab Control Sample	115	119
LCS 880-74579/2-A	Lab Control Sample	79	85
LCS 880-74795/2-A	Lab Control Sample	115	121
LCS 880-74796/2-A	Lab Control Sample	86	88
LCSD 880-73296/3-A	Lab Control Sample Dup	92	105
LCSD 880-73548/3-A	Lab Control Sample Dup	69 S1-	78
LCSD 880-73703/3-A	Lab Control Sample Dup	85	97
LCSD 880-73913/3-A	Lab Control Sample Dup	98	76
LCSD 880-74242/3-A	Lab Control Sample Dup	102	101
LCSD 880-74398/3-A	Lab Control Sample Dup	105	102
LCSD 880-74402/3-A	Lab Control Sample Dup	96	99
LCSD 880-74579/3-A	Lab Control Sample Dup	95	101
LCSD 880-74795/3-A	Lab Control Sample Dup	104	104
LCSD 880-74796/3-A	Lab Control Sample Dup	86	87
MB 880-73296/1-A - RA2	Method Blank	83	87
MB 880-73548/1-A - RA2	Method Blank	96	104
MB 880-73703/1-A	Method Blank	96	101
MB 880-73913/1-A	Method Blank	134 S1+	110
MB 880-74242/1-A	Method Blank	213 S1+	192 S1+
MB 880-74398/1-A	Method Blank	160 S1+	148 S1+
MB 880-74402/1-A	Method Blank	163 S1+	180 S1+
MB 880-74579/1-A	Method Blank	117	135 S1+
MB 880-74795/1-A	Method Blank	125	118
MB 880-74796/1-A	Method Blank	121	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73272/5-A

Matrix: Solid

Analysis Batch: 73428

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/15/24 14:55	02/19/24 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	02/15/24 14:55	02/19/24 11:50	1
1,4-Difluorobenzene (Surr)	83		70 - 130	02/15/24 14:55	02/19/24 11:50	1

Lab Sample ID: MB 880-73289/5-A

Matrix: Solid

Analysis Batch: 73858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:58	02/22/24 18:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:58	02/22/24 18:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:58	02/22/24 18:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/15/24 15:58	02/22/24 18:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:58	02/22/24 18:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 15:58	02/22/24 18:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	02/15/24 15:58	02/22/24 18:16	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	02/15/24 15:58	02/22/24 18:16	1

Lab Sample ID: MB 880-73291/5-A

Matrix: Solid

Analysis Batch: 73714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/15/24 16:02	02/21/24 11:26	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/15/24 16:02	02/21/24 11:26	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/15/24 16:02	02/21/24 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/15/24 16:02	02/21/24 11:26	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/15/24 16:02	02/21/24 11:26	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/15/24 16:02	02/21/24 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	02/15/24 16:02	02/21/24 11:26	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/15/24 16:02	02/21/24 11:26	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCS 880-73291/1-A

Matrix: Solid

Analysis Batch: 73714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1074		mg/Kg		107	70 - 130
Toluene	0.100	0.09619		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09181		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1852		mg/Kg		93	70 - 130
o-Xylene	0.100	0.08961		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-73291/2-A

Matrix: Solid

Analysis Batch: 73714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1044		mg/Kg		104	70 - 130	3	35
Toluene	0.100	0.09432		mg/Kg		94	70 - 130	2	35
Ethylbenzene	0.100	0.09506		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1942		mg/Kg		97	70 - 130	5	35
o-Xylene	0.100	0.09309		mg/Kg		93	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	126		70 - 130

Lab Sample ID: MB 880-73562/5-A

Matrix: Solid

Analysis Batch: 73428

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/19/24 15:57	02/20/24 01:29	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/19/24 15:57	02/20/24 01:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/19/24 15:57	02/20/24 01:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/19/24 15:57	02/20/24 01:29	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/19/24 15:57	02/20/24 01:29	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/19/24 15:57	02/20/24 01:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	195	S1+	70 - 130	02/19/24 15:57	02/20/24 01:29	1
1,4-Difluorobenzene (Surr)	122		70 - 130	02/19/24 15:57	02/20/24 01:29	1

Lab Sample ID: LCS 880-73562/1-A

Matrix: Solid

Analysis Batch: 73428

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07684		mg/Kg		77	70 - 130
Toluene	0.100	0.08799		mg/Kg		88	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCS 880-73562/1-A

Matrix: Solid

Analysis Batch: 73428

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.08306		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.2089		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

Lab Sample ID: LCSD 880-73562/2-A

Matrix: Solid

Analysis Batch: 73428

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73562

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09432		mg/Kg		94	70 - 130	20	35
Toluene	0.100	0.1204		mg/Kg		120	70 - 130	31	35
Ethylbenzene	0.100	0.1134		mg/Kg		113	70 - 130	31	35
m-Xylene & p-Xylene	0.200	0.2422		mg/Kg		121	70 - 130	15	35
o-Xylene	0.100	0.1211		mg/Kg		121	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	200	S1+	70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 880-39535-1 MS

Matrix: Solid

Analysis Batch: 73428

Client Sample ID: B-6-S-4'

Prep Type: Total/NA

Prep Batch: 73562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U *1	0.101	0.07986		mg/Kg		79	70 - 130
Toluene	<0.00198	U *- *1	0.101	0.08278		mg/Kg		82	70 - 130
Ethylbenzene	<0.00198	U *+ *1	0.101	0.07349		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00396	U *+	0.202	0.2004		mg/Kg		99	70 - 130
o-Xylene	<0.00198	U *+	0.101	0.09723		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

Lab Sample ID: 880-39535-1 MSD

Matrix: Solid

Analysis Batch: 73428

Client Sample ID: B-6-S-4'

Prep Type: Total/NA

Prep Batch: 73562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00198	U *1	0.100	0.07593		mg/Kg		76	70 - 130	5	35
Toluene	<0.00198	U *- *1	0.100	0.09859		mg/Kg		98	70 - 130	17	35
Ethylbenzene	<0.00198	U *+ *1	0.100	0.09501		mg/Kg		95	70 - 130	26	35
m-Xylene & p-Xylene	<0.00396	U *+	0.201	0.2158		mg/Kg		107	70 - 130	7	35
o-Xylene	<0.00198	U *+	0.100	0.09219		mg/Kg		92	70 - 130	5	35

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: MB 880-73750/5-A

Matrix: Solid

Analysis Batch: 73976

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 13:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 13:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 13:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/24 09:42	02/24/24 13:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 13:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/24 09:42	02/24/24 13:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Prepared

02/21/24 09:42

02/24/24 13:56

1

Lab Sample ID: MB 880-73775/5-A

Matrix: Solid

Analysis Batch: 73859

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 17:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 17:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 17:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/24 11:59	02/22/24 17:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 11:59	02/22/24 17:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/24 11:59	02/22/24 17:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Prepared

02/21/24 11:59

02/22/24 17:18

1

Lab Sample ID: LCS 880-73775/1-A

Matrix: Solid

Analysis Batch: 73859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1052		mg/Kg		105	70 - 130
Toluene	0.100	0.09334		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09457		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1900		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09655		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCSD 880-73775/2-A

Matrix: Solid

Analysis Batch: 73859

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73775

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1102		mg/Kg		110	70 - 130	5	35
Toluene	0.100	0.09809		mg/Kg		98	70 - 130	5	35
Ethylbenzene	0.100	0.09942		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130	5	35
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-73881/5-A

Matrix: Solid

Analysis Batch: 73858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/24 15:27	02/23/24 08:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/24 15:27	02/23/24 08:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/24 15:27	02/23/24 08:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/24 15:27	02/23/24 08:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/24 15:27	02/23/24 08:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/24 15:27	02/23/24 08:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	02/22/24 15:27	02/23/24 08:04	1
1,4-Difluorobenzene (Surr)	113		70 - 130	02/22/24 15:27	02/23/24 08:04	1

Lab Sample ID: LCS 880-73881/1-A

Matrix: Solid

Analysis Batch: 73858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09462		mg/Kg		95	70 - 130
Toluene	0.100	0.09802		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.08353		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1861		mg/Kg		93	70 - 130
o-Xylene	0.100	0.08806		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-73881/2-A

Matrix: Solid

Analysis Batch: 73858

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73881

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09832		mg/Kg		98	70 - 130	4	35
Toluene	0.100	0.1095		mg/Kg		110	70 - 130	11	35

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCSD 880-73881/2-A

Matrix: Solid

Analysis Batch: 73858

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73881

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.1098		mg/Kg		110	70 - 130	27	35
m-Xylene & p-Xylene	0.200	0.2145		mg/Kg		107	70 - 130	14	35
o-Xylene	0.100	0.09264		mg/Kg		93	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: MB 880-73892/5-A

Matrix: Solid

Analysis Batch: 73976

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/24 16:35	02/25/24 01:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	02/22/24 16:35	02/25/24 01:35	1
1,4-Difluorobenzene (Surr)	111		70 - 130	02/22/24 16:35	02/25/24 01:35	1

Lab Sample ID: LCS 880-73892/1-A

Matrix: Solid

Analysis Batch: 73976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73892

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	0.09785		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1085		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.1660		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08555		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-73892/2-A

Matrix: Solid

Analysis Batch: 73976

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1084		mg/Kg		108	70 - 130	1	35
Toluene	0.100	0.09422		mg/Kg		94	70 - 130	4	35
Ethylbenzene	0.100	0.1256		mg/Kg		126	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2083		mg/Kg		104	70 - 130	23	35

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCSD 880-73892/2-A

Matrix: Solid

Analysis Batch: 73976

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene	0.100	0.09605		mg/Kg		96	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-74272/5-A

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0007693	J	0.00200	0.000385	mg/Kg		02/28/24 14:30	02/28/24 17:37	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/28/24 14:30	02/28/24 17:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/28/24 14:30	02/28/24 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/28/24 14:30	02/28/24 17:37	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/28/24 14:30	02/28/24 17:37	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/28/24 14:30	02/28/24 17:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	02/28/24 14:30	02/28/24 17:37	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/28/24 14:30	02/28/24 17:37	1

Lab Sample ID: LCS 880-74272/1-A

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09984		mg/Kg		100	70 - 130
Toluene	0.100	0.1148		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1194		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2383		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1171		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-74272/2-A

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74272

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1087		mg/Kg		109	70 - 130	9	35
Toluene	0.100	0.1018		mg/Kg		102	70 - 130	12	35
Ethylbenzene	0.100	0.09585		mg/Kg		96	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.1848		mg/Kg		92	70 - 130	25	35
o-Xylene	0.100	0.09212		mg/Kg		92	70 - 130	24	35

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCSD 880-74272/2-A

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74272

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: 890-6265-1 MS

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: B - 35 - S - 4

Prep Type: Total/NA

Prep Batch: 74272

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000771	J B	0.101	0.08454		mg/Kg		83	70 - 130
Toluene	0.000605	J	0.101	0.09571		mg/Kg		94	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.1005		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.00140	J	0.202	0.1977		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.101	0.09675		mg/Kg		96	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	125		70 - 130

Lab Sample ID: 890-6265-1 MSD

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: B - 35 - S - 4

Prep Type: Total/NA

Prep Batch: 74272

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.000771	J B	0.100	0.08445		mg/Kg		84	70 - 130	0	35
Toluene	0.000605	J	0.100	0.1028		mg/Kg		102	70 - 130	7	35
Ethylbenzene	<0.00199	U	0.100	0.1132		mg/Kg		113	70 - 130	12	35
m-Xylene & p-Xylene	0.00140	J	0.200	0.2117		mg/Kg		105	70 - 130	7	35
o-Xylene	<0.00199	U	0.100	0.1030		mg/Kg		103	70 - 130	6	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: MB 880-74289/5-A

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0007598	J	0.00200	0.000384	mg/Kg		02/28/24 16:29	02/29/24 04:14	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		02/28/24 16:29	02/29/24 04:14	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		02/28/24 16:29	02/29/24 04:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		02/28/24 16:29	02/29/24 04:14	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		02/28/24 16:29	02/29/24 04:14	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		02/28/24 16:29	02/29/24 04:14	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	73		70 - 130	02/28/24 16:29	02/29/24 04:14	1			

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: MB 880-74289/5-A

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74289

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	02/28/24 16:29	02/29/24 04:14	1

Lab Sample ID: LCS 880-74289/1-A

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08719		mg/Kg		87	70 - 130
Toluene	0.100	0.08692		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09854		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2315		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1218		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-74289/2-A

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74289

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09792		mg/Kg		98	70 - 130	12	35
Toluene	0.100	0.09535		mg/Kg		95	70 - 130	9	35
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2483		mg/Kg		124	70 - 130	7	35
o-Xylene	0.100	0.1254		mg/Kg		125	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-39888-1 MS

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: B-33-S-4

Prep Type: Total/NA

Prep Batch: 74289

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000761	J B	0.0994	0.09767		mg/Kg		97	70 - 130
Toluene	<0.00199	U	0.0994	0.09409		mg/Kg		95	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.0994	0.1014		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.00110	J F2	0.199	0.2509		mg/Kg		126	70 - 130
o-Xylene	<0.00199	U	0.0994	0.1255		mg/Kg		126	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: 880-39888-1 MSD

Matrix: Solid

Analysis Batch: 74273

Client Sample ID: B-33-S-4

Prep Type: Total/NA

Prep Batch: 74289

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.000761	J B	0.101	0.09256		mg/Kg		91	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.09875		mg/Kg		98	70 - 130	5	35
Ethylbenzene	<0.00199	U F1 F2	0.101	0.06713	F1 F2	mg/Kg		67	70 - 130	41	35
m-Xylene & p-Xylene	0.00110	J F2	0.202	0.1665	F2	mg/Kg		82	70 - 130	40	35
o-Xylene	<0.00199	U	0.101	0.1196		mg/Kg		119	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-74450/5-A

Matrix: Solid

Analysis Batch: 74455

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		03/01/24 08:24	03/01/24 12:15	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		03/01/24 08:24	03/01/24 12:15	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		03/01/24 08:24	03/01/24 12:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		03/01/24 08:24	03/01/24 12:15	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		03/01/24 08:24	03/01/24 12:15	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		03/01/24 08:24	03/01/24 12:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	03/01/24 08:24	03/01/24 12:15	1
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130	03/01/24 08:24	03/01/24 12:15	1

Lab Sample ID: MB 880-74467/5-A

Matrix: Solid

Analysis Batch: 74455

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		03/01/24 11:28	03/02/24 00:20	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		03/01/24 11:28	03/02/24 00:20	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		03/01/24 11:28	03/02/24 00:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		03/01/24 11:28	03/02/24 00:20	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		03/01/24 11:28	03/02/24 00:20	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		03/01/24 11:28	03/02/24 00:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	03/01/24 11:28	03/02/24 00:20	1
1,4-Difluorobenzene (Surr)	125		70 - 130	03/01/24 11:28	03/02/24 00:20	1

Lab Sample ID: LCS 880-74467/1-A

Matrix: Solid

Analysis Batch: 74455

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1116		mg/Kg		112	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCS 880-74467/1-A

Matrix: Solid

Analysis Batch: 74455

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.09708		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1086		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2228		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1095		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-74467/2-A

Matrix: Solid

Analysis Batch: 74455

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74467

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1072		mg/Kg		107	70 - 130	4	35
Toluene	0.100	0.09481		mg/Kg		95	70 - 130	2	35
Ethylbenzene	0.100	0.1085		mg/Kg		109	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2258		mg/Kg		113	70 - 130	1	35
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-74677/5-A

Matrix: Solid

Analysis Batch: 74749

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0007534	J	0.00200	0.000385	mg/Kg		03/04/24 14:35	03/05/24 11:35	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		03/04/24 14:35	03/05/24 11:35	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		03/04/24 14:35	03/05/24 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		03/04/24 14:35	03/05/24 11:35	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		03/04/24 14:35	03/05/24 11:35	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		03/04/24 14:35	03/05/24 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	03/04/24 14:35	03/05/24 11:35	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/04/24 14:35	03/05/24 11:35	1

Lab Sample ID: LCS 880-74677/1-A

Matrix: Solid

Analysis Batch: 74749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07611		mg/Kg		76	70 - 130
Toluene	0.100	0.08856		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09434		mg/Kg		94	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCS 880-74677/1-A

Matrix: Solid

Analysis Batch: 74749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	0.200	0.1911		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09645		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-74677/2-A

Matrix: Solid

Analysis Batch: 74749

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74677

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08588		mg/Kg		86	70 - 130	12	35
Toluene	0.100	0.09121		mg/Kg		91	70 - 130	3	35
Ethylbenzene	0.100	0.09807		mg/Kg		98	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130	12	35
o-Xylene	0.100	0.1074		mg/Kg		107	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: MB 880-74688/5-A

Matrix: Solid

Analysis Batch: 74894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		03/04/24 15:17	03/06/24 16:17	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		03/04/24 15:17	03/06/24 16:17	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		03/04/24 15:17	03/06/24 16:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		03/04/24 15:17	03/06/24 16:17	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		03/04/24 15:17	03/06/24 16:17	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		03/04/24 15:17	03/06/24 16:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	03/04/24 15:17	03/06/24 16:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/04/24 15:17	03/06/24 16:17	1

Lab Sample ID: MB 880-74701/5-A

Matrix: Solid

Analysis Batch: 74894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		03/04/24 16:21	03/07/24 03:34	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		03/04/24 16:21	03/07/24 03:34	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		03/04/24 16:21	03/07/24 03:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		03/04/24 16:21	03/07/24 03:34	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		03/04/24 16:21	03/07/24 03:34	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: MB 880-74701/5-A

Matrix: Solid

Analysis Batch: 74894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		03/04/24 16:21	03/07/24 03:34	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				03/04/24 16:21	03/07/24 03:34	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/04/24 16:21	03/07/24 03:34	1

Lab Sample ID: LCS 880-74701/1-A

Matrix: Solid

Analysis Batch: 74894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1021		mg/Kg		102	70 - 130		
Toluene	0.100	0.1109		mg/Kg		111	70 - 130		
Ethylbenzene	0.100	0.1192		mg/Kg		119	70 - 130		
m-Xylene & p-Xylene	0.200	0.2488		mg/Kg		124	70 - 130		
o-Xylene	0.100	0.1268		mg/Kg		127	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	114		70 - 130						
1,4-Difluorobenzene (Surr)	93		70 - 130						

Lab Sample ID: LCSD 880-74701/2-A

Matrix: Solid

Analysis Batch: 74894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	4	35
Toluene	0.100	0.1130		mg/Kg		113	70 - 130	2	35
Ethylbenzene	0.100	0.1191		mg/Kg		119	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2477		mg/Kg		124	70 - 130	0	35
o-Xylene	0.100	0.1263		mg/Kg		126	70 - 130	0	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	115		70 - 130						
1,4-Difluorobenzene (Surr)	94		70 - 130						

Lab Sample ID: 880-40212-1 MS

Matrix: Solid

Analysis Batch: 74894

Client Sample ID: B-52-S-4'

Prep Type: Total/NA

Prep Batch: 74701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.07828		mg/Kg		79	70 - 130
Toluene	<0.00199	U	0.0996	0.08272		mg/Kg		83	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.08491		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1743		mg/Kg		87	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08872		mg/Kg		89	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: 880-40212-1 MS

Matrix: Solid

Analysis Batch: 74894

Client Sample ID: B-52-S-4'

Prep Type: Total/NA

Prep Batch: 74701

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-40212-1 MSD

Matrix: Solid

Analysis Batch: 74894

Client Sample ID: B-52-S-4'

Prep Type: Total/NA

Prep Batch: 74701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08929		mg/Kg		89	70 - 130	13	35
Toluene	<0.00199	U	0.100	0.09829		mg/Kg		98	70 - 130	17	35
Ethylbenzene	<0.00199	U	0.100	0.1037		mg/Kg		103	70 - 130	20	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2139		mg/Kg		107	70 - 130	20	35
o-Xylene	<0.00199	U	0.100	0.1075		mg/Kg		107	70 - 130	19	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: LCS 880-73296/2-A

Matrix: Solid

Analysis Batch: 73424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	968.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: LCSD 880-73296/3-A

Matrix: Solid

Analysis Batch: 73424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73296

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1040		mg/Kg		104	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1019		mg/Kg		102	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	105		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCS 880-73548/2-A

Matrix: Solid

Analysis Batch: 73602

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73548

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	867.7		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	793.2		mg/Kg		79	70 - 130		
Surrogate	LCS	LCS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	73		70 - 130								
o-Terphenyl	82		70 - 130								

Lab Sample ID: LCSD 880-73548/3-A

Matrix: Solid

Analysis Batch: 73602

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73548

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	823.7		mg/Kg		82	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	753.1		mg/Kg		75	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	69	S1-	70 - 130								
o-Terphenyl	78		70 - 130								

Lab Sample ID: MB 880-73703/1-A

Matrix: Solid

Analysis Batch: 73819

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73703

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/20/24 16:46	02/22/24 11:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/24 16:46	02/22/24 11:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/24 16:46	02/22/24 11:25	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	96		70 - 130				02/20/24 16:46	02/22/24 11:25	1
o-Terphenyl	101		70 - 130				02/20/24 16:46	02/22/24 11:25	1

Lab Sample ID: LCS 880-73703/2-A

Matrix: Solid

Analysis Batch: 73819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	990.6		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1008		mg/Kg		101	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCS 880-73703/2-A

Matrix: Solid

Analysis Batch: 73819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73703

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-73703/3-A

Matrix: Solid

Analysis Batch: 73819

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	975.2		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	939.9		mg/Kg		94	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: MB 880-73913/1-A

Matrix: Solid

Analysis Batch: 73917

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/23/24 09:40	02/23/24 11:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/24 09:40	02/23/24 11:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/24 09:40	02/23/24 11:58	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	134	S1+	70 - 130	02/23/24 09:40	02/23/24 11:58	1
o-Terphenyl	110		70 - 130	02/23/24 09:40	02/23/24 11:58	1

Lab Sample ID: LCS 880-73913/2-A

Matrix: Solid

Analysis Batch: 73917

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73913

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1151		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	891.1		mg/Kg		89	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	67	S1-	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCSD 880-73913/3-A

Matrix: Solid

Analysis Batch: 73917

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73913

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	896.6	*1	mg/Kg		90	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	1000	1034		mg/Kg		103	70 - 130	15	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	76		70 - 130						

Lab Sample ID: 890-6240-1 MS

Matrix: Solid

Analysis Batch: 73917

Client Sample ID: SW-4-5-2

Prep Type: Total/NA

Prep Batch: 73913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	1000	1025		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1000	773.4		mg/Kg		75	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	76		70 - 130								

Lab Sample ID: 890-6240-1 MSD

Matrix: Solid

Analysis Batch: 73917

Client Sample ID: SW-4-5-2

Prep Type: Total/NA

Prep Batch: 73913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	1000	1044		mg/Kg		101	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1000	685.2	F1	mg/Kg		66	70 - 130	12	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	67	S1-	70 - 130								

Lab Sample ID: MB 880-74242/1-A

Matrix: Solid

Analysis Batch: 74320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.19	J	50.0	15.0	mg/Kg		02/28/24 10:22	02/29/24 08:31	1
Diesel Range Organics (Over C10-C28)	21.33	J	50.0	15.0	mg/Kg		02/28/24 10:22	02/29/24 08:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/28/24 10:22	02/29/24 08:31	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: MB 880-74242/1-A

Matrix: Solid

Analysis Batch: 74320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74242

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	213	S1+	70 - 130	02/28/24 10:22	02/29/24 08:31	1				
o-Terphenyl	192	S1+	70 - 130	02/28/24 10:22	02/29/24 08:31	1				

Lab Sample ID: LCS 880-74242/2-A

Matrix: Solid

Analysis Batch: 74320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74242

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1193		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1067		mg/Kg		107	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
1-Chlorooctane	124		70 - 130								
o-Terphenyl	126		70 - 130								

Lab Sample ID: LCSD 880-74242/3-A

Matrix: Solid

Analysis Batch: 74320

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74242

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1028		mg/Kg		103	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	894.1		mg/Kg		89	70 - 130	18	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: 890-6265-1 MS

Matrix: Solid

Analysis Batch: 74320

Client Sample ID: B - 35 - S - 4

Prep Type: Total/NA

Prep Batch: 74242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	48.3	J F1 B	1010	1243		mg/Kg		118	70 - 130		
Diesel Range Organics (Over C10-C28)	34.3	J F1 B	1010	954.5		mg/Kg		91	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	196	S1+	70 - 130								
o-Terphenyl	156	S1+	70 - 130								

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: 890-6265-1 MSD

Matrix: Solid

Analysis Batch: 74320

Client Sample ID: B - 35 - S - 4

Prep Type: Total/NA

Prep Batch: 74242

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	48.3	J F1 B	1010	1253		mg/Kg		119	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	34.3	J F1 B	1010	993.1		mg/Kg		95	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	201	S1+	70 - 130								
o-Terphenyl	161	S1+	70 - 130								

Lab Sample ID: MB 880-74398/1-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.59	J	50.0	15.0	mg/Kg		02/29/24 15:18	03/01/24 06:27	1
Diesel Range Organics (Over C10-C28)	21.50	J	50.0	15.0	mg/Kg		02/29/24 15:18	03/01/24 06:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/29/24 15:18	03/01/24 06:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130				02/29/24 15:18	03/01/24 06:27	1
o-Terphenyl	148	S1+	70 - 130				02/29/24 15:18	03/01/24 06:27	1

Lab Sample ID: LCS 880-74398/2-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	876.9		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1332	*+	mg/Kg		133	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	155	S1+	70 - 130						
o-Terphenyl	159	S1+	70 - 130						

Lab Sample ID: LCSD 880-74398/3-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	812.2		mg/Kg		81	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	889.3	*1	mg/Kg		89	70 - 130	40	20

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCSD 880-74398/3-A

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74398

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: MB 880-74402/1-A

Matrix: Solid

Analysis Batch: 74447

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74402

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		02/29/24 15:51	03/01/24 06:27	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		02/29/24 15:51	03/01/24 06:27	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		02/29/24 15:51	03/01/24 06:27	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	163	S1+	70 - 130				02/29/24 15:51	03/01/24 06:27	1	
o-Terphenyl	180	S1+	70 - 130				02/29/24 15:51	03/01/24 06:27	1	

Lab Sample ID: LCS 880-74402/2-A

Matrix: Solid

Analysis Batch: 74447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74402

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1220		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1334	*+	mg/Kg		133	70 - 130		
Surrogate		LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane		115		70 - 130					
o-Terphenyl		119		70 - 130					

Lab Sample ID: LCSD 880-74402/3-A

Matrix: Solid

Analysis Batch: 74447

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74402

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	956.7	*1	mg/Kg		96	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	1122		mg/Kg		112	70 - 130	17	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		96		70 - 130					
o-Terphenyl		99		70 - 130					

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: MB 880-74579/1-A

Matrix: Solid

Analysis Batch: 74568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		03/04/24 08:17	03/04/24 09:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		03/04/24 08:17	03/04/24 09:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/04/24 08:17	03/04/24 09:03	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				03/04/24 08:17	03/04/24 09:03	1
o-Terphenyl	135	S1+	70 - 130				03/04/24 08:17	03/04/24 09:03	1

Lab Sample ID: LCS 880-74579/2-A

Matrix: Solid

Analysis Batch: 74568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	792.6		mg/Kg		79	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	951.7		mg/Kg		95	70 - 130	
Surrogate	%Recovery	LCS Qualifier	Limits					
1-Chlorooctane	79		70 - 130					
o-Terphenyl	85		70 - 130					

Lab Sample ID: LCSD 880-74579/3-A

Matrix: Solid

Analysis Batch: 74568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74579

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1123	*1	mg/Kg		112	70 - 130	34	20
Diesel Range Organics (Over C10-C28)	1000	1129		mg/Kg		113	70 - 130	17	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	95		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: MB 880-74795/1-A

Matrix: Solid

Analysis Batch: 74775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.14	J	50.0	15.0	mg/Kg		03/05/24 08:00	03/05/24 08:11	1
Diesel Range Organics (Over C10-C28)	23.43	J	50.0	15.0	mg/Kg		03/05/24 08:00	03/05/24 08:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/05/24 08:00	03/05/24 08:11	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: MB 880-74795/1-A

Matrix: Solid

Analysis Batch: 74775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74795

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	03/05/24 08:00	03/05/24 08:11	1
o-Terphenyl	118		70 - 130	03/05/24 08:00	03/05/24 08:11	1

Lab Sample ID: LCS 880-74795/2-A

Matrix: Solid

Analysis Batch: 74775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74795

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	1172		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	994.6		mg/Kg		99	70 - 130		
Surrogate		LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane		115		70 - 130						
o-Terphenyl		121		70 - 130						

Lab Sample ID: LCSD 880-74795/3-A

Matrix: Solid

Analysis Batch: 74775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74795

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10		1000	1088		mg/Kg		109	70 - 130	7	20
Diesel Range Organics (Over C10-C28)		1000	889.7		mg/Kg		89	70 - 130	11	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane		104		70 - 130						
o-Terphenyl		104		70 - 130						

Lab Sample ID: 880-40212-1 MS

Matrix: Solid

Analysis Batch: 74775

Client Sample ID: B-52-S-4'

Prep Type: Total/NA

Prep Batch: 74795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	39.6	J B	991	1241		mg/Kg		121	70 - 130		
Diesel Range Organics (Over C10-C28)	96.3	B	991	888.9		mg/Kg		80	70 - 130		
Surrogate		MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane		109		70 - 130							
o-Terphenyl		94		70 - 130							

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: 880-40212-1 MSD

Matrix: Solid

Analysis Batch: 74775

Client Sample ID: B-52-S-4'

Prep Type: Total/NA

Prep Batch: 74795

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	39.6	J B	991	1264		mg/Kg		123	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	96.3	B	991	943.7		mg/Kg		86	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	111		70 - 130								
o-Terphenyl	97		70 - 130								

Lab Sample ID: MB 880-74796/1-A

Matrix: Solid

Analysis Batch: 74778

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.12	J	50.0	15.0	mg/Kg		03/05/24 08:00	03/05/24 08:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		03/05/24 08:00	03/05/24 08:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		03/05/24 08:00	03/05/24 08:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				03/05/24 08:00	03/05/24 08:11	1
o-Terphenyl	139	S1+	70 - 130				03/05/24 08:00	03/05/24 08:11	1

Lab Sample ID: LCS 880-74796/2-A

Matrix: Solid

Analysis Batch: 74778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	859.9		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1020		mg/Kg		102	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	86		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: LCSD 880-74796/3-A

Matrix: Solid

Analysis Batch: 74778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74796

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	838.5		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130	2	20

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

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

Lab Sample ID: LCSD 880-74796/3-A

Matrix: Solid

Analysis Batch: 74778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74796

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 880-40212-9 MS

Matrix: Solid

Analysis Batch: 74778

Client Sample ID: B-60-S-4'

Prep Type: Total/NA

Prep Batch: 74796

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	48.1	J F2 B	1000	938.8		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	98.8		1000	933.1		mg/Kg		83	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	118		70 - 130								
o-Terphenyl	115		70 - 130								

Lab Sample ID: 880-40212-9 MSD

Matrix: Solid

Analysis Batch: 74778

Client Sample ID: B-60-S-4'

Prep Type: Total/NA

Prep Batch: 74796

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	48.1	J F2 B	1000	1197	F2	mg/Kg		115	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	98.8		1000	1066		mg/Kg		97	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	131	S1+	70 - 130								
o-Terphenyl	132	S1+	70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2

Lab Sample ID: MB 880-73296/1-A

Matrix: Solid

Analysis Batch: 73424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73296

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10 - RA2	22.50	J	50.0	15.0	mg/Kg		02/15/24 17:08	02/19/24 07:50	1
Diesel Range Organics (Over C10-C28) - RA2	<50.0	U	50.0	15.0	mg/Kg		02/15/24 17:08	02/19/24 07:50	1
Oil Range Organics (Over C28-C36) - RA2	<50.0	U	50.0	15.0	mg/Kg		02/15/24 17:08	02/19/24 07:50	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
1-Chlorooctane - RA2	83		70 - 130				02/15/24 17:08	02/19/24 07:50	1
o-Terphenyl - RA2	87		70 - 130				02/15/24 17:08	02/19/24 07:50	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2 (Continued)

Lab Sample ID: MB 880-73548/1-A

Matrix: Solid

Analysis Batch: 73602

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA2	16.68	J	50.0	15.0	mg/Kg		02/19/24 15:20	02/20/24 08:05	1
Diesel Range Organics (Over C10-C28) - RA2	23.62	J	50.0	15.0	mg/Kg		02/19/24 15:20	02/20/24 08:05	1
Oil Range Organics (Over C28-C36) - RA2	<50.0	U	50.0	15.0	mg/Kg		02/19/24 15:20	02/20/24 08:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA2	96		70 - 130				02/19/24 15:20	02/20/24 08:05	1
o-Terphenyl - RA2	104		70 - 130				02/19/24 15:20	02/20/24 08:05	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73229/1-A

Matrix: Solid

Analysis Batch: 73260

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			02/15/24 14:28	1

Lab Sample ID: LCS 880-73229/2-A

Matrix: Solid

Analysis Batch: 73260

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232.5		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-73229/3-A

Matrix: Solid

Analysis Batch: 73260

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	233.9		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 880-39453-1 MS

Matrix: Solid

Analysis Batch: 73260

Client Sample ID: B-1-S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7810	F1	2520	10590		mg/Kg		110	90 - 110

Lab Sample ID: 880-39453-1 MSD

Matrix: Solid

Analysis Batch: 73260

Client Sample ID: B-1-S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7810	F1	2520	10660	F1	mg/Kg		113	90 - 110	1	20

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-73445/1-A

Matrix: Solid

Analysis Batch: 73456

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			02/19/24 11:34	1

Lab Sample ID: LCS 880-73445/2-A

Matrix: Solid

Analysis Batch: 73456

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.4		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-73445/3-A

Matrix: Solid

Analysis Batch: 73456

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-73713/1-A

Matrix: Solid

Analysis Batch: 73805

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			02/21/24 19:12	1

Lab Sample ID: LCS 880-73713/2-A

Matrix: Solid

Analysis Batch: 73805

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	229.0		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-73713/3-A

Matrix: Solid

Analysis Batch: 73805

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	230.7		mg/Kg		92	90 - 110	1	20

Lab Sample ID: MB 880-73823/1-A

Matrix: Solid

Analysis Batch: 73837

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			02/22/24 11:18	1

Lab Sample ID: LCS 880-73823/2-A

Matrix: Solid

Analysis Batch: 73837

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	225.7		mg/Kg		90	90 - 110

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-73823/3-A

Matrix: Solid

Analysis Batch: 73837

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	227.2		mg/Kg		91	90 - 110	1	20

Lab Sample ID: 890-6230-1 MS

Matrix: Solid

Analysis Batch: 73837

Client Sample ID: B-23-5-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3590	F1	1240	4693	F1	mg/Kg		89	90 - 110		

Lab Sample ID: 890-6230-1 MSD

Matrix: Solid

Analysis Batch: 73837

Client Sample ID: B-23-5-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3590	F1	1240	4756		mg/Kg		94	90 - 110	1	20

Lab Sample ID: MB 880-73914/1-A

Matrix: Solid

Analysis Batch: 73923

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			02/23/24 11:38	1

Lab Sample ID: LCS 880-73914/2-A

Matrix: Solid

Analysis Batch: 73923

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.6		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-73914/3-A

Matrix: Solid

Analysis Batch: 73923

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.6		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-73903/1-A

Matrix: Solid

Analysis Batch: 73936

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			02/23/24 14:37	1

Lab Sample ID: LCS 880-73903/2-A

Matrix: Solid

Analysis Batch: 73936

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.7		mg/Kg		104	90 - 110		

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-73903/3-A

Matrix: Solid

Analysis Batch: 73936

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	259.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-6240-7 MS

Matrix: Solid

Analysis Batch: 73936

Client Sample ID: B-30-5-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5390		2520	8083		mg/Kg		107	90 - 110		

Lab Sample ID: 890-6240-7 MSD

Matrix: Solid

Analysis Batch: 73936

Client Sample ID: B-30-5-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5390		2520	7879		mg/Kg		99	90 - 110	3	20

Lab Sample ID: MB 880-74040/1-A

Matrix: Solid

Analysis Batch: 74145

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			02/27/24 16:36	1

Lab Sample ID: LCS 880-74040/2-A

Matrix: Solid

Analysis Batch: 74145

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.5		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-74040/3-A

Matrix: Solid

Analysis Batch: 74145

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	242.8		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-74215/1-A

Matrix: Solid

Analysis Batch: 74264

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			02/28/24 11:38	1

Lab Sample ID: LCS 880-74215/2-A

Matrix: Solid

Analysis Batch: 74264

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	238.5		mg/Kg		95	90 - 110		

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-74215/3-A

Matrix: Solid

Analysis Batch: 74264

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	239.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-6265-4 MS

Matrix: Solid

Analysis Batch: 74264

Client Sample ID: B - 37 - S - 4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1170		251	1396	4	mg/Kg		89	90 - 110		

Lab Sample ID: 890-6265-4 MSD

Matrix: Solid

Analysis Batch: 74264

Client Sample ID: B - 37 - S - 4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1170		251	1398	4	mg/Kg		89	90 - 110	0	20

Lab Sample ID: MB 880-74329/1-A

Matrix: Solid

Analysis Batch: 74350

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			02/29/24 10:54	1

Lab Sample ID: LCS 880-74329/2-A

Matrix: Solid

Analysis Batch: 74350

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.9		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-74329/3-A

Matrix: Solid

Analysis Batch: 74350

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	234.6		mg/Kg		94	90 - 110	5	20

Lab Sample ID: 880-40083-1 MS

Matrix: Solid

Analysis Batch: 74350

Client Sample ID: SW-6-S-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	150		249	396.4		mg/Kg		99	90 - 110		

Lab Sample ID: 880-40083-1 MSD

Matrix: Solid

Analysis Batch: 74350

Client Sample ID: SW-6-S-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	150		249	386.0		mg/Kg		95	90 - 110	3	20

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74325/1-A

Matrix: Solid

Analysis Batch: 74424

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			03/01/24 06:23	1

Lab Sample ID: LCS 880-74325/2-A

Matrix: Solid

Analysis Batch: 74424

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.0		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-74325/3-A

Matrix: Solid

Analysis Batch: 74424

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	241.2		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-40083-8 MS

Matrix: Solid

Analysis Batch: 74424

Client Sample ID: B-43-S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2500	F1	1240	3732		mg/Kg		99	90 - 110

Lab Sample ID: 880-40083-8 MSD

Matrix: Solid

Analysis Batch: 74424

Client Sample ID: B-43-S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2500	F1	1240	3951	F1	mg/Kg		117	90 - 110	6	20

Lab Sample ID: MB 880-74425/1-A

Matrix: Solid

Analysis Batch: 74502

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			03/01/24 15:17	1

Lab Sample ID: LCS 880-74425/2-A

Matrix: Solid

Analysis Batch: 74502

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.0		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-74425/3-A

Matrix: Solid

Analysis Batch: 74502

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.5		mg/Kg		98	90 - 110	0	20

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-40159-3 MS

Matrix: Solid

Analysis Batch: 74502

Client Sample ID: B-50-S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7360		2520	9754		mg/Kg		95	90 - 110

Lab Sample ID: 880-40159-3 MSD

Matrix: Solid

Analysis Batch: 74502

Client Sample ID: B-50-S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7360		2520	9771		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-74552/1-A

Matrix: Solid

Analysis Batch: 74606

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			03/04/24 12:46	1

Lab Sample ID: LCS 880-74552/2-A

Matrix: Solid

Analysis Batch: 74606

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.7		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-74552/3-A

Matrix: Solid

Analysis Batch: 74606

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	236.2		mg/Kg		94	90 - 110	1	20

Lab Sample ID: MB 880-74576/1-A

Matrix: Solid

Analysis Batch: 74694

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			03/04/24 15:10	1

Lab Sample ID: LCS 880-74576/2-A

Matrix: Solid

Analysis Batch: 74694

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-74576/3-A

Matrix: Solid

Analysis Batch: 74694

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.6		mg/Kg		98	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.

Job ID: 890-6265-1

Project/Site: SRO SWD #104 EDDY COUNTY

GC VOA

Prep Batch: 73272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73272/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 73289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73289/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 73291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39453-1	B-1-S-4	Total/NA	Solid	5030B	
880-39453-2	B-2-S-4	Total/NA	Solid	5030B	
880-39453-3	B-3-S-4	Total/NA	Solid	5030B	
880-39453-4	B-4-S-4	Total/NA	Solid	5030B	
880-39453-5	B-5-S-4	Total/NA	Solid	5030B	
MB 880-73291/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-73291/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-73291/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 73428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39535-1	B-6-S-4'	Total/NA	Solid	8021B	73562
880-39535-2	B-7-S-4'	Total/NA	Solid	8021B	73562
880-39535-3	SW-3-S-2'	Total/NA	Solid	8021B	73562
880-39535-4	SW-2-S-2'	Total/NA	Solid	8021B	73562
880-39535-5	B-8-S-4'	Total/NA	Solid	8021B	73562
880-39535-6	B-9-S-4'	Total/NA	Solid	8021B	73562
880-39535-7	B-10-S-4'	Total/NA	Solid	8021B	73562
880-39535-8	B-11-S-4'	Total/NA	Solid	8021B	73562
MB 880-73272/5-A	Method Blank	Total/NA	Solid	8021B	73272
MB 880-73562/5-A	Method Blank	Total/NA	Solid	8021B	73562
LCS 880-73562/1-A	Lab Control Sample	Total/NA	Solid	8021B	73562
LCSD 880-73562/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73562
880-39535-1 MS	B-6-S-4'	Total/NA	Solid	8021B	73562
880-39535-1 MSD	B-6-S-4'	Total/NA	Solid	8021B	73562

Prep Batch: 73562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39535-1	B-6-S-4'	Total/NA	Solid	5030B	
880-39535-2	B-7-S-4'	Total/NA	Solid	5030B	
880-39535-3	SW-3-S-2'	Total/NA	Solid	5030B	
880-39535-4	SW-2-S-2'	Total/NA	Solid	5030B	
880-39535-5	B-8-S-4'	Total/NA	Solid	5030B	
880-39535-6	B-9-S-4'	Total/NA	Solid	5030B	
880-39535-7	B-10-S-4'	Total/NA	Solid	5030B	
880-39535-8	B-11-S-4'	Total/NA	Solid	5030B	
MB 880-73562/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-73562/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-73562/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-39535-1 MS	B-6-S-4'	Total/NA	Solid	5030B	
880-39535-1 MSD	B-6-S-4'	Total/NA	Solid	5030B	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC VOA

Analysis Batch: 73714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39453-1	B-1-S-4	Total/NA	Solid	8021B	73291
880-39453-2	B-2-S-4	Total/NA	Solid	8021B	73291
880-39453-3	B-3-S-4	Total/NA	Solid	8021B	73291
880-39453-4	B-4-S-4	Total/NA	Solid	8021B	73291
880-39453-5	B-5-S-4	Total/NA	Solid	8021B	73291
MB 880-73291/5-A	Method Blank	Total/NA	Solid	8021B	73291
LCS 880-73291/1-A	Lab Control Sample	Total/NA	Solid	8021B	73291
LCSD 880-73291/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73291

Prep Batch: 73750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73750/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 73775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6230-1	B-23-5-4	Total/NA	Solid	5035	
890-6230-2	B-24-5-4	Total/NA	Solid	5035	
890-6230-3	B-19-5-4	Total/NA	Solid	5035	
890-6230-4	B-20-5-4	Total/NA	Solid	5035	
890-6230-5	B-21-5-4	Total/NA	Solid	5035	
890-6230-6	B-22--5-4	Total/NA	Solid	5035	
MB 880-73775/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73775/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73775/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 73858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6240-1	SW-4-5-2	Total/NA	Solid	8021B	73881
890-6240-2	B-25-5-4	Total/NA	Solid	8021B	73881
890-6240-3	B-26-5-4	Total/NA	Solid	8021B	73881
890-6240-4	B--27-5-4	Total/NA	Solid	8021B	73881
890-6240-5	B-28-5-4	Total/NA	Solid	8021B	73881
890-6240-6	B-29-5-4	Total/NA	Solid	8021B	73881
890-6240-7	B-30-5-4	Total/NA	Solid	8021B	73881
MB 880-73289/5-A	Method Blank	Total/NA	Solid	8021B	73289
MB 880-73881/5-A	Method Blank	Total/NA	Solid	8021B	73881
LCS 880-73881/1-A	Lab Control Sample	Total/NA	Solid	8021B	73881
LCSD 880-73881/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73881

Analysis Batch: 73859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6230-1	B-23-5-4	Total/NA	Solid	8021B	73775
890-6230-2	B-24-5-4	Total/NA	Solid	8021B	73775
890-6230-3	B-19-5-4	Total/NA	Solid	8021B	73775
890-6230-4	B-20-5-4	Total/NA	Solid	8021B	73775
890-6230-5	B-21-5-4	Total/NA	Solid	8021B	73775
890-6230-6	B-22--5-4	Total/NA	Solid	8021B	73775
MB 880-73775/5-A	Method Blank	Total/NA	Solid	8021B	73775
LCS 880-73775/1-A	Lab Control Sample	Total/NA	Solid	8021B	73775
LCSD 880-73775/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73775

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC VOA

Prep Batch: 73881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6240-1	SW-4-5-2	Total/NA	Solid	5035	
890-6240-2	B-25-5-4	Total/NA	Solid	5035	
890-6240-3	B-26-5-4	Total/NA	Solid	5035	
890-6240-4	B--27-5-4	Total/NA	Solid	5035	
890-6240-5	B-28-5-4	Total/NA	Solid	5035	
890-6240-6	B-29-5-4	Total/NA	Solid	5035	
890-6240-7	B-30-5-4	Total/NA	Solid	5035	
MB 880-73881/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73881/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73881/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 73892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6221-1	SW-1-S-2	Total/NA	Solid	5035	
890-6221-2	B-12-5-4	Total/NA	Solid	5035	
890-6221-3	B-13-5-4	Total/NA	Solid	5035	
890-6221-4	B-14-5-4	Total/NA	Solid	5035	
890-6221-5	B-15-5-4	Total/NA	Solid	5035	
890-6221-6	B-16-5-4	Total/NA	Solid	5035	
890-6221-7	B-17-5-4	Total/NA	Solid	5035	
890-6221-8	B-18-5-4	Total/NA	Solid	5035	
MB 880-73892/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73892/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73892/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 73953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6230-1	B-23-5-4	Total/NA	Solid	Total BTEX	
890-6230-2	B-24-5-4	Total/NA	Solid	Total BTEX	
890-6230-3	B-19-5-4	Total/NA	Solid	Total BTEX	
890-6230-4	B-20-5-4	Total/NA	Solid	Total BTEX	
890-6230-5	B-21-5-4	Total/NA	Solid	Total BTEX	
890-6230-6	B-22--5-4	Total/NA	Solid	Total BTEX	

Analysis Batch: 73975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6240-1	SW-4-5-2	Total/NA	Solid	Total BTEX	
890-6240-2	B-25-5-4	Total/NA	Solid	Total BTEX	
890-6240-3	B-26-5-4	Total/NA	Solid	Total BTEX	
890-6240-4	B--27-5-4	Total/NA	Solid	Total BTEX	
890-6240-5	B-28-5-4	Total/NA	Solid	Total BTEX	
890-6240-6	B-29-5-4	Total/NA	Solid	Total BTEX	
890-6240-7	B-30-5-4	Total/NA	Solid	Total BTEX	

Analysis Batch: 73976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6221-1	SW-1-S-2	Total/NA	Solid	8021B	73892
890-6221-2	B-12-5-4	Total/NA	Solid	8021B	73892
890-6221-3	B-13-5-4	Total/NA	Solid	8021B	73892
890-6221-4	B-14-5-4	Total/NA	Solid	8021B	73892
890-6221-5	B-15-5-4	Total/NA	Solid	8021B	73892

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC VOA (Continued)

Analysis Batch: 73976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6221-6	B-16-5-4	Total/NA	Solid	8021B	73892
890-6221-7	B-17-5-4	Total/NA	Solid	8021B	73892
890-6221-8	B-18-5-4	Total/NA	Solid	8021B	73892
MB 880-73750/5-A	Method Blank	Total/NA	Solid	8021B	73750
MB 880-73892/5-A	Method Blank	Total/NA	Solid	8021B	73892
LCS 880-73892/1-A	Lab Control Sample	Total/NA	Solid	8021B	73892
LCSD 880-73892/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73892

Analysis Batch: 74067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6221-1	SW-1-S-2	Total/NA	Solid	Total BTEX	
890-6221-2	B-12-5-4	Total/NA	Solid	Total BTEX	
890-6221-3	B-13-5-4	Total/NA	Solid	Total BTEX	
890-6221-4	B-14-5-4	Total/NA	Solid	Total BTEX	
890-6221-5	B-15-5-4	Total/NA	Solid	Total BTEX	
890-6221-6	B-16-5-4	Total/NA	Solid	Total BTEX	
890-6221-7	B-17-5-4	Total/NA	Solid	Total BTEX	
890-6221-8	B-18-5-4	Total/NA	Solid	Total BTEX	

Prep Batch: 74272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39825-1	SW-8S-2'	Total/NA	Solid	5030B	
880-39825-2	B-31-S-4	Total/NA	Solid	5030B	
880-39825-3	B-32-S-4	Total/NA	Solid	5030B	
890-6265-1	B - 35 - S - 4	Total/NA	Solid	5030B	
890-6265-2	B - 36 - S - 4	Total/NA	Solid	5030B	
890-6265-3	SW - 5 - S - 2	Total/NA	Solid	5030B	
890-6265-4	B - 37 - S - 4	Total/NA	Solid	5030B	
890-6265-5	B - 38 - S - 4	Total/NA	Solid	5030B	
890-6265-6	B - 39 - S - 4	Total/NA	Solid	5030B	
MB 880-74272/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-74272/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-74272/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-6265-1 MS	B - 35 - S - 4	Total/NA	Solid	5030B	
890-6265-1 MSD	B - 35 - S - 4	Total/NA	Solid	5030B	

Analysis Batch: 74273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39825-1	SW-8S-2'	Total/NA	Solid	8021B	74272
880-39825-2	B-31-S-4	Total/NA	Solid	8021B	74272
880-39825-3	B-32-S-4	Total/NA	Solid	8021B	74272
880-39888-1	B-33-S-4	Total/NA	Solid	8021B	74289
880-39888-2	B-34-S-4	Total/NA	Solid	8021B	74289
890-6265-1	B - 35 - S - 4	Total/NA	Solid	8021B	74272
890-6265-2	B - 36 - S - 4	Total/NA	Solid	8021B	74272
890-6265-3	SW - 5 - S - 2	Total/NA	Solid	8021B	74272
890-6265-4	B - 37 - S - 4	Total/NA	Solid	8021B	74272
890-6265-5	B - 38 - S - 4	Total/NA	Solid	8021B	74272
890-6265-6	B - 39 - S - 4	Total/NA	Solid	8021B	74272
MB 880-74272/5-A	Method Blank	Total/NA	Solid	8021B	74272
MB 880-74289/5-A	Method Blank	Total/NA	Solid	8021B	74289

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC VOA (Continued)

Analysis Batch: 74273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-74272/1-A	Lab Control Sample	Total/NA	Solid	8021B	74272
LCS 880-74289/1-A	Lab Control Sample	Total/NA	Solid	8021B	74289
LCSD 880-74272/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74272
LCSD 880-74289/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74289
880-39888-1 MS	B-33-S-4	Total/NA	Solid	8021B	74289
880-39888-1 MSD	B-33-S-4	Total/NA	Solid	8021B	74289
890-6265-1 MS	B - 35 - S - 4	Total/NA	Solid	8021B	74272
890-6265-1 MSD	B - 35 - S - 4	Total/NA	Solid	8021B	74272

Prep Batch: 74289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39888-1	B-33-S-4	Total/NA	Solid	5030B	
880-39888-2	B-34-S-4	Total/NA	Solid	5030B	
MB 880-74289/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-74289/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-74289/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-39888-1 MS	B-33-S-4	Total/NA	Solid	5030B	
880-39888-1 MSD	B-33-S-4	Total/NA	Solid	5030B	

Prep Batch: 74450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74450/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 74455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-1	SW-6-S-2	Total/NA	Solid	8021B	74467
880-40083-2	SW-5A-S-2	Total/NA	Solid	8021B	74467
880-40083-3	B-40-S-4	Total/NA	Solid	8021B	74467
880-40083-4	B-41-S-4	Total/NA	Solid	8021B	74467
880-40083-5	B-42-S-4	Total/NA	Solid	8021B	74467
880-40083-6	SW-7-S-2	Total/NA	Solid	8021B	74467
880-40083-7	SW-7A-S-2	Total/NA	Solid	8021B	74467
880-40083-8	B-43-S-4	Total/NA	Solid	8021B	74467
880-40083-9	B-44-S-4	Total/NA	Solid	8021B	74467
880-40083-10	B-45-S-4	Total/NA	Solid	8021B	74467
880-40083-11	B-46-S-4	Total/NA	Solid	8021B	74467
880-40083-12	B-47-S-4	Total/NA	Solid	8021B	74467
MB 880-74450/5-A	Method Blank	Total/NA	Solid	8021B	74450
MB 880-74467/5-A	Method Blank	Total/NA	Solid	8021B	74467
LCS 880-74467/1-A	Lab Control Sample	Total/NA	Solid	8021B	74467
LCSD 880-74467/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74467

Prep Batch: 74467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-1	SW-6-S-2	Total/NA	Solid	5030B	
880-40083-2	SW-5A-S-2	Total/NA	Solid	5030B	
880-40083-3	B-40-S-4	Total/NA	Solid	5030B	
880-40083-4	B-41-S-4	Total/NA	Solid	5030B	
880-40083-5	B-42-S-4	Total/NA	Solid	5030B	
880-40083-6	SW-7-S-2	Total/NA	Solid	5030B	
880-40083-7	SW-7A-S-2	Total/NA	Solid	5030B	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC VOA (Continued)

Prep Batch: 74467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-8	B-43-S-4	Total/NA	Solid	5030B	
880-40083-9	B-44-S-4	Total/NA	Solid	5030B	
880-40083-10	B-45-S-4	Total/NA	Solid	5030B	
880-40083-11	B-46-S-4	Total/NA	Solid	5030B	
880-40083-12	B-47-S-4	Total/NA	Solid	5030B	
MB 880-74467/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-74467/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-74467/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 74677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40159-1	B-48 -S-4	Total/NA	Solid	5030B	
880-40159-2	B-49-S-4	Total/NA	Solid	5030B	
880-40159-3	B-50-S-4	Total/NA	Solid	5030B	
880-40159-4	B-51-S-4	Total/NA	Solid	5030B	
MB 880-74677/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-74677/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-74677/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 74688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74688/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 74701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-1	B-52-S-4'	Total/NA	Solid	5030B	
880-40212-2	B-53-S-4'	Total/NA	Solid	5030B	
880-40212-3	B-54-S-4'	Total/NA	Solid	5030B	
880-40212-4	B-55-S-4'	Total/NA	Solid	5030B	
880-40212-5	B-56-S-4'	Total/NA	Solid	5030B	
880-40212-6	B-57-S-4'	Total/NA	Solid	5030B	
880-40212-7	B-58-S-4'	Total/NA	Solid	5030B	
880-40212-8	B-59-S-4'	Total/NA	Solid	5030B	
880-40212-9	B-60-S-4'	Total/NA	Solid	5030B	
880-40212-10	B-61-S-4'	Total/NA	Solid	5030B	
880-40212-11	SW-5B-S-2'	Total/NA	Solid	5030B	
MB 880-74701/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-74701/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-74701/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-40212-1 MS	B-52-S-4'	Total/NA	Solid	5030B	
880-40212-1 MSD	B-52-S-4'	Total/NA	Solid	5030B	

Analysis Batch: 74749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40159-1	B-48 -S-4	Total/NA	Solid	8021B	74677
880-40159-2	B-49-S-4	Total/NA	Solid	8021B	74677
880-40159-3	B-50-S-4	Total/NA	Solid	8021B	74677
880-40159-4	B-51-S-4	Total/NA	Solid	8021B	74677
MB 880-74677/5-A	Method Blank	Total/NA	Solid	8021B	74677
LCS 880-74677/1-A	Lab Control Sample	Total/NA	Solid	8021B	74677
LCSD 880-74677/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74677

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC VOA

Analysis Batch: 74894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-1	B-52-S-4'	Total/NA	Solid	8021B	74701
880-40212-2	B-53-S-4'	Total/NA	Solid	8021B	74701
880-40212-3	B-54-S-4'	Total/NA	Solid	8021B	74701
880-40212-4	B-55-S-4'	Total/NA	Solid	8021B	74701
880-40212-5	B-56-S-4'	Total/NA	Solid	8021B	74701
880-40212-6	B-57-S-4'	Total/NA	Solid	8021B	74701
880-40212-7	B-58-S-4'	Total/NA	Solid	8021B	74701
880-40212-8	B-59-S-4'	Total/NA	Solid	8021B	74701
880-40212-9	B-60-S-4'	Total/NA	Solid	8021B	74701
880-40212-10	B-61-S-4'	Total/NA	Solid	8021B	74701
880-40212-11	SW-5B-S-2'	Total/NA	Solid	8021B	74701
MB 880-74688/5-A	Method Blank	Total/NA	Solid	8021B	74688
MB 880-74701/5-A	Method Blank	Total/NA	Solid	8021B	74701
LCS 880-74701/1-A	Lab Control Sample	Total/NA	Solid	8021B	74701
LCSD 880-74701/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74701
880-40212-1 MS	B-52-S-4'	Total/NA	Solid	8021B	74701
880-40212-1 MSD	B-52-S-4'	Total/NA	Solid	8021B	74701

GC Semi VOA

Prep Batch: 73296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39453-1	B-1-S-4	Total/NA	Solid	8015NM Prep	
880-39453-2	B-2-S-4	Total/NA	Solid	8015NM Prep	
880-39453-3	B-3-S-4	Total/NA	Solid	8015NM Prep	
880-39453-4	B-4-S-4	Total/NA	Solid	8015NM Prep	
880-39453-5	B-5-S-4	Total/NA	Solid	8015NM Prep	
MB 880-73296/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73296/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39453-1	B-1-S-4	Total/NA	Solid	8015B NM	73296
880-39453-2	B-2-S-4	Total/NA	Solid	8015B NM	73296
880-39453-3	B-3-S-4	Total/NA	Solid	8015B NM	73296
880-39453-4	B-4-S-4	Total/NA	Solid	8015B NM	73296
880-39453-5	B-5-S-4	Total/NA	Solid	8015B NM	73296
MB 880-73296/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	73296
LCS 880-73296/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73296
LCSD 880-73296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73296

Prep Batch: 73548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39535-1	B-6-S-4'	Total/NA	Solid	8015NM Prep	
880-39535-2	B-7-S-4'	Total/NA	Solid	8015NM Prep	
880-39535-3	SW-3-S-2'	Total/NA	Solid	8015NM Prep	
880-39535-4	SW-2-S-2'	Total/NA	Solid	8015NM Prep	
880-39535-5	B-8-S-4'	Total/NA	Solid	8015NM Prep	
880-39535-6	B-9-S-4'	Total/NA	Solid	8015NM Prep	
880-39535-7	B-10-S-4'	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC Semi VOA (Continued)

Prep Batch: 73548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39535-8	B-11-S-4'	Total/NA	Solid	8015NM Prep	
MB 880-73548/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73548/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73548/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39535-1	B-6-S-4'	Total/NA	Solid	8015B NM	73548
880-39535-2	B-7-S-4'	Total/NA	Solid	8015B NM	73548
880-39535-3	SW-3-S-2'	Total/NA	Solid	8015B NM	73548
880-39535-4	SW-2-S-2'	Total/NA	Solid	8015B NM	73548
880-39535-5	B-8-S-4'	Total/NA	Solid	8015B NM	73548
880-39535-6	B-9-S-4'	Total/NA	Solid	8015B NM	73548
880-39535-7	B-10-S-4'	Total/NA	Solid	8015B NM	73548
880-39535-8	B-11-S-4'	Total/NA	Solid	8015B NM	73548
MB 880-73548/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	73548
LCS 880-73548/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73548
LCSD 880-73548/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73548

Analysis Batch: 73626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39453-1	B-1-S-4	Total/NA	Solid	8015 NM	
880-39453-2	B-2-S-4	Total/NA	Solid	8015 NM	
880-39453-3	B-3-S-4	Total/NA	Solid	8015 NM	
880-39453-4	B-4-S-4	Total/NA	Solid	8015 NM	
880-39453-5	B-5-S-4	Total/NA	Solid	8015 NM	

Prep Batch: 73703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6221-1	SW-1-S-2	Total/NA	Solid	8015NM Prep	
890-6221-2	B-12-5-4	Total/NA	Solid	8015NM Prep	
890-6221-3	B-13-5-4	Total/NA	Solid	8015NM Prep	
890-6221-4	B-14-5-4	Total/NA	Solid	8015NM Prep	
890-6221-5	B-15-5-4	Total/NA	Solid	8015NM Prep	
890-6221-6	B-16-5-4	Total/NA	Solid	8015NM Prep	
890-6221-7	B-17-5-4	Total/NA	Solid	8015NM Prep	
890-6221-8	B-18-5-4	Total/NA	Solid	8015NM Prep	
890-6230-1	B-23-5-4	Total/NA	Solid	8015NM Prep	
890-6230-2	B-24-5-4	Total/NA	Solid	8015NM Prep	
890-6230-3	B-19-5-4	Total/NA	Solid	8015NM Prep	
890-6230-4	B-20-5-4	Total/NA	Solid	8015NM Prep	
890-6230-5	B-21-5-4	Total/NA	Solid	8015NM Prep	
890-6230-6	B-22--5-4	Total/NA	Solid	8015NM Prep	
MB 880-73703/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73703/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39535-1	B-6-S-4'	Total/NA	Solid	8015 NM	
880-39535-2	B-7-S-4'	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC Semi VOA (Continued)

Analysis Batch: 73744 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39535-3	SW-3-S-2'	Total/NA	Solid	8015 NM	
880-39535-4	SW-2-S-2'	Total/NA	Solid	8015 NM	
880-39535-5	B-8-S-4'	Total/NA	Solid	8015 NM	
880-39535-6	B-9-S-4'	Total/NA	Solid	8015 NM	
880-39535-7	B-10-S-4'	Total/NA	Solid	8015 NM	
880-39535-8	B-11-S-4'	Total/NA	Solid	8015 NM	

Analysis Batch: 73819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6221-1	SW-1-S-2	Total/NA	Solid	8015B NM	73703
890-6221-2	B-12-5-4	Total/NA	Solid	8015B NM	73703
890-6221-3	B-13-5-4	Total/NA	Solid	8015B NM	73703
890-6221-4	B-14-5-4	Total/NA	Solid	8015B NM	73703
890-6221-5	B-15-5-4	Total/NA	Solid	8015B NM	73703
890-6221-6	B-16-5-4	Total/NA	Solid	8015B NM	73703
890-6221-7	B-17-5-4	Total/NA	Solid	8015B NM	73703
890-6221-8	B-18-5-4	Total/NA	Solid	8015B NM	73703
890-6230-1	B-23-5-4	Total/NA	Solid	8015B NM	73703
890-6230-2	B-24-5-4	Total/NA	Solid	8015B NM	73703
890-6230-3	B-19-5-4	Total/NA	Solid	8015B NM	73703
890-6230-4	B-20-5-4	Total/NA	Solid	8015B NM	73703
890-6230-5	B-21-5-4	Total/NA	Solid	8015B NM	73703
890-6230-6	B-22--5-4	Total/NA	Solid	8015B NM	73703
MB 880-73703/1-A	Method Blank	Total/NA	Solid	8015B NM	73703
LCS 880-73703/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73703
LCSD 880-73703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73703

Prep Batch: 73913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6240-1	SW-4-5-2	Total/NA	Solid	8015NM Prep	
890-6240-2	B-25-5-4	Total/NA	Solid	8015NM Prep	
890-6240-3	B-26-5-4	Total/NA	Solid	8015NM Prep	
890-6240-4	B--27-5-4	Total/NA	Solid	8015NM Prep	
890-6240-5	B-28-5-4	Total/NA	Solid	8015NM Prep	
890-6240-6	B-29-5-4	Total/NA	Solid	8015NM Prep	
890-6240-7	B-30-5-4	Total/NA	Solid	8015NM Prep	
MB 880-73913/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73913/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73913/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6240-1 MS	SW-4-5-2	Total/NA	Solid	8015NM Prep	
890-6240-1 MSD	SW-4-5-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6240-1	SW-4-5-2	Total/NA	Solid	8015B NM	73913
890-6240-2	B-25-5-4	Total/NA	Solid	8015B NM	73913
890-6240-3	B-26-5-4	Total/NA	Solid	8015B NM	73913
890-6240-4	B--27-5-4	Total/NA	Solid	8015B NM	73913
890-6240-5	B-28-5-4	Total/NA	Solid	8015B NM	73913
890-6240-6	B-29-5-4	Total/NA	Solid	8015B NM	73913
890-6240-7	B-30-5-4	Total/NA	Solid	8015B NM	73913

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC Semi VOA (Continued)

Analysis Batch: 73917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73913/1-A	Method Blank	Total/NA	Solid	8015B NM	73913
LCS 880-73913/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73913
LCSD 880-73913/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73913
890-6240-1 MS	SW-4-5-2	Total/NA	Solid	8015B NM	73913
890-6240-1 MSD	SW-4-5-2	Total/NA	Solid	8015B NM	73913

Analysis Batch: 73948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6230-1	B-23-5-4	Total/NA	Solid	8015 NM	
890-6230-2	B-24-5-4	Total/NA	Solid	8015 NM	
890-6230-3	B-19-5-4	Total/NA	Solid	8015 NM	
890-6230-4	B-20-5-4	Total/NA	Solid	8015 NM	
890-6230-5	B-21-5-4	Total/NA	Solid	8015 NM	
890-6230-6	B-22--5-4	Total/NA	Solid	8015 NM	

Analysis Batch: 73950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6221-1	SW-1-S-2	Total/NA	Solid	8015 NM	
890-6221-2	B-12-5-4	Total/NA	Solid	8015 NM	
890-6221-3	B-13-5-4	Total/NA	Solid	8015 NM	
890-6221-4	B-14-5-4	Total/NA	Solid	8015 NM	
890-6221-5	B-15-5-4	Total/NA	Solid	8015 NM	
890-6221-6	B-16-5-4	Total/NA	Solid	8015 NM	
890-6221-7	B-17-5-4	Total/NA	Solid	8015 NM	
890-6221-8	B-18-5-4	Total/NA	Solid	8015 NM	

Analysis Batch: 74006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6240-1	SW-4-5-2	Total/NA	Solid	8015 NM	
890-6240-2	B-25-5-4	Total/NA	Solid	8015 NM	
890-6240-3	B-26-5-4	Total/NA	Solid	8015 NM	
890-6240-4	B--27-5-4	Total/NA	Solid	8015 NM	
890-6240-5	B-28-5-4	Total/NA	Solid	8015 NM	
890-6240-6	B-29-5-4	Total/NA	Solid	8015 NM	
890-6240-7	B-30-5-4	Total/NA	Solid	8015 NM	

Prep Batch: 74242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39825-1	SW-8S-2'	Total/NA	Solid	8015NM Prep	
880-39825-2	B-31-S-4	Total/NA	Solid	8015NM Prep	
880-39825-3	B-32-S-4	Total/NA	Solid	8015NM Prep	
890-6265-1	B - 35 - S - 4	Total/NA	Solid	8015NM Prep	
890-6265-2	B - 36 - S - 4	Total/NA	Solid	8015NM Prep	
890-6265-3	SW - 5 - S - 2	Total/NA	Solid	8015NM Prep	
890-6265-4	B - 37 - S - 4	Total/NA	Solid	8015NM Prep	
890-6265-5	B - 38 - S - 4	Total/NA	Solid	8015NM Prep	
890-6265-6	B - 39 - S - 4	Total/NA	Solid	8015NM Prep	
MB 880-74242/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74242/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74242/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6265-1 MS	B - 35 - S - 4	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.

Job ID: 890-6265-1

Project/Site: SRO SWD #104 EDDY COUNTY

GC Semi VOA (Continued)

Prep Batch: 74242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6265-1 MSD	B - 35 - S - 4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39825-1	SW-8S-2'	Total/NA	Solid	8015B NM	74242
880-39825-2	B-31-S-4	Total/NA	Solid	8015B NM	74242
880-39825-3	B-32-S-4	Total/NA	Solid	8015B NM	74242
890-6265-1	B - 35 - S - 4	Total/NA	Solid	8015B NM	74242
890-6265-2	B - 36 - S - 4	Total/NA	Solid	8015B NM	74242
890-6265-3	SW - 5 - S - 2	Total/NA	Solid	8015B NM	74242
890-6265-4	B - 37 - S - 4	Total/NA	Solid	8015B NM	74242
890-6265-5	B - 38 - S - 4	Total/NA	Solid	8015B NM	74242
890-6265-6	B - 39 - S - 4	Total/NA	Solid	8015B NM	74242
MB 880-74242/1-A	Method Blank	Total/NA	Solid	8015B NM	74242
LCS 880-74242/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74242
LCSD 880-74242/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74242
890-6265-1 MS	B - 35 - S - 4	Total/NA	Solid	8015B NM	74242
890-6265-1 MSD	B - 35 - S - 4	Total/NA	Solid	8015B NM	74242

Prep Batch: 74398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39888-1	B-33-S-4	Total/NA	Solid	8015NM Prep	
880-39888-2	B-34-S-4	Total/NA	Solid	8015NM Prep	
MB 880-74398/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74398/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 74402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-1	SW-6-S-2	Total/NA	Solid	8015NM Prep	
880-40083-2	SW-5A-S-2	Total/NA	Solid	8015NM Prep	
880-40083-3	B-40-S-4	Total/NA	Solid	8015NM Prep	
880-40083-4	B-41-S-4	Total/NA	Solid	8015NM Prep	
880-40083-5	B-42-S-4	Total/NA	Solid	8015NM Prep	
880-40083-6	SW-7-S-2	Total/NA	Solid	8015NM Prep	
880-40083-7	SW-7A-S-2	Total/NA	Solid	8015NM Prep	
880-40083-8	B-43-S-4	Total/NA	Solid	8015NM Prep	
880-40083-9	B-44-S-4	Total/NA	Solid	8015NM Prep	
880-40083-10	B-45-S-4	Total/NA	Solid	8015NM Prep	
880-40083-11	B-46-S-4	Total/NA	Solid	8015NM Prep	
880-40083-12	B-47-S-4	Total/NA	Solid	8015NM Prep	
MB 880-74402/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74402/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74402/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6265-1	B - 35 - S - 4	Total/NA	Solid	8015 NM	
890-6265-2	B - 36 - S - 4	Total/NA	Solid	8015 NM	
890-6265-3	SW - 5 - S - 2	Total/NA	Solid	8015 NM	
890-6265-4	B - 37 - S - 4	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC Semi VOA (Continued)

Analysis Batch: 74415 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6265-5	B - 38 - S - 4	Total/NA	Solid	8015 NM	
890-6265-6	B - 39 - S - 4	Total/NA	Solid	8015 NM	

Analysis Batch: 74416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39825-1	SW-8S-2'	Total/NA	Solid	8015 NM	
880-39825-2	B-31-S-4	Total/NA	Solid	8015 NM	
880-39825-3	B-32-S-4	Total/NA	Solid	8015 NM	

Analysis Batch: 74445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39888-1	B-33-S-4	Total/NA	Solid	8015B NM	74398
880-39888-2	B-34-S-4	Total/NA	Solid	8015B NM	74398
MB 880-74398/1-A	Method Blank	Total/NA	Solid	8015B NM	74398
LCS 880-74398/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74398
LCSD 880-74398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74398

Analysis Batch: 74447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-1	SW-6-S-2	Total/NA	Solid	8015B NM	74402
880-40083-2	SW-5A-S-2	Total/NA	Solid	8015B NM	74402
880-40083-3	B-40-S-4	Total/NA	Solid	8015B NM	74402
880-40083-4	B-41-S-4	Total/NA	Solid	8015B NM	74402
880-40083-5	B-42-S-4	Total/NA	Solid	8015B NM	74402
880-40083-6	SW-7-S-2	Total/NA	Solid	8015B NM	74402
880-40083-7	SW-7A-S-2	Total/NA	Solid	8015B NM	74402
880-40083-8	B-43-S-4	Total/NA	Solid	8015B NM	74402
880-40083-9	B-44-S-4	Total/NA	Solid	8015B NM	74402
880-40083-10	B-45-S-4	Total/NA	Solid	8015B NM	74402
880-40083-11	B-46-S-4	Total/NA	Solid	8015B NM	74402
880-40083-12	B-47-S-4	Total/NA	Solid	8015B NM	74402
MB 880-74402/1-A	Method Blank	Total/NA	Solid	8015B NM	74402
LCS 880-74402/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74402
LCSD 880-74402/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74402

Analysis Batch: 74568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40159-1	B-48 -S-4	Total/NA	Solid	8015B NM	74579
880-40159-2	B-49-S-4	Total/NA	Solid	8015B NM	74579
880-40159-3	B-50-S-4	Total/NA	Solid	8015B NM	74579
880-40159-4	B-51-S-4	Total/NA	Solid	8015B NM	74579
880-40212-10	B-61-S-4'	Total/NA	Solid	8015B NM	74579
880-40212-11	SW-5B-S-2'	Total/NA	Solid	8015B NM	74579
MB 880-74579/1-A	Method Blank	Total/NA	Solid	8015B NM	74579
LCS 880-74579/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74579
LCSD 880-74579/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74579

Prep Batch: 74579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40159-1	B-48 -S-4	Total/NA	Solid	8015NM Prep	
880-40159-2	B-49-S-4	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC Semi VOA (Continued)

Prep Batch: 74579 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40159-3	B-50-S-4	Total/NA	Solid	8015NM Prep	
880-40159-4	B-51-S-4	Total/NA	Solid	8015NM Prep	
880-40212-10	B-61-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-11	SW-5B-S-2'	Total/NA	Solid	8015NM Prep	
MB 880-74579/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74579/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74579/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39888-1	B-33-S-4	Total/NA	Solid	8015 NM	
880-39888-2	B-34-S-4	Total/NA	Solid	8015 NM	

Analysis Batch: 74690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-1	SW-6-S-2	Total/NA	Solid	8015 NM	
880-40083-2	SW-5A-S-2	Total/NA	Solid	8015 NM	
880-40083-3	B-40-S-4	Total/NA	Solid	8015 NM	
880-40083-4	B-41-S-4	Total/NA	Solid	8015 NM	
880-40083-5	B-42-S-4	Total/NA	Solid	8015 NM	
880-40083-6	SW-7-S-2	Total/NA	Solid	8015 NM	
880-40083-7	SW-7A-S-2	Total/NA	Solid	8015 NM	
880-40083-8	B-43-S-4	Total/NA	Solid	8015 NM	
880-40083-9	B-44-S-4	Total/NA	Solid	8015 NM	
880-40083-10	B-45-S-4	Total/NA	Solid	8015 NM	
880-40083-11	B-46-S-4	Total/NA	Solid	8015 NM	
880-40083-12	B-47-S-4	Total/NA	Solid	8015 NM	

Analysis Batch: 74775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-1	B-52-S-4'	Total/NA	Solid	8015B NM	74795
880-40212-2	B-53-S-4'	Total/NA	Solid	8015B NM	74795
880-40212-3	B-54-S-4'	Total/NA	Solid	8015B NM	74795
880-40212-4	B-55-S-4'	Total/NA	Solid	8015B NM	74795
MB 880-74795/1-A	Method Blank	Total/NA	Solid	8015B NM	74795
LCS 880-74795/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74795
LCSD 880-74795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74795
880-40212-1 MS	B-52-S-4'	Total/NA	Solid	8015B NM	74795
880-40212-1 MSD	B-52-S-4'	Total/NA	Solid	8015B NM	74795

Analysis Batch: 74778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-5	B-56-S-4'	Total/NA	Solid	8015B NM	74796
880-40212-6	B-57-S-4'	Total/NA	Solid	8015B NM	74796
880-40212-7	B-58-S-4'	Total/NA	Solid	8015B NM	74796
880-40212-8	B-59-S-4'	Total/NA	Solid	8015B NM	74796
880-40212-9	B-60-S-4'	Total/NA	Solid	8015B NM	74796
MB 880-74796/1-A	Method Blank	Total/NA	Solid	8015B NM	74796
LCS 880-74796/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74796
LCSD 880-74796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74796
880-40212-9 MS	B-60-S-4'	Total/NA	Solid	8015B NM	74796

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

GC Semi VOA (Continued)

Analysis Batch: 74778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-9 MSD	B-60-S-4'	Total/NA	Solid	8015B NM	74796

Analysis Batch: 74785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40159-1	B-48 -S-4	Total/NA	Solid	8015 NM	
880-40159-2	B-49-S-4	Total/NA	Solid	8015 NM	
880-40159-3	B-50-S-4	Total/NA	Solid	8015 NM	
880-40159-4	B-51-S-4	Total/NA	Solid	8015 NM	

Analysis Batch: 74786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-1	B-52-S-4'	Total/NA	Solid	8015 NM	
880-40212-2	B-53-S-4'	Total/NA	Solid	8015 NM	
880-40212-3	B-54-S-4'	Total/NA	Solid	8015 NM	
880-40212-4	B-55-S-4'	Total/NA	Solid	8015 NM	
880-40212-5	B-56-S-4'	Total/NA	Solid	8015 NM	
880-40212-6	B-57-S-4'	Total/NA	Solid	8015 NM	
880-40212-7	B-58-S-4'	Total/NA	Solid	8015 NM	
880-40212-8	B-59-S-4'	Total/NA	Solid	8015 NM	
880-40212-9	B-60-S-4'	Total/NA	Solid	8015 NM	
880-40212-10	B-61-S-4'	Total/NA	Solid	8015 NM	
880-40212-11	SW-5B-S-2'	Total/NA	Solid	8015 NM	

Prep Batch: 74795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-1	B-52-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-2	B-53-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-3	B-54-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-4	B-55-S-4'	Total/NA	Solid	8015NM Prep	
MB 880-74795/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74795/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40212-1 MS	B-52-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-1 MSD	B-52-S-4'	Total/NA	Solid	8015NM Prep	

Prep Batch: 74796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-5	B-56-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-6	B-57-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-7	B-58-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-8	B-59-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-9	B-60-S-4'	Total/NA	Solid	8015NM Prep	
MB 880-74796/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74796/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40212-9 MS	B-60-S-4'	Total/NA	Solid	8015NM Prep	
880-40212-9 MSD	B-60-S-4'	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

HPLC/IC

Leach Batch: 73229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39453-1	B-1-S-4	Soluble	Solid	DI Leach	
880-39453-2	B-2-S-4	Soluble	Solid	DI Leach	
880-39453-3	B-3-S-4	Soluble	Solid	DI Leach	
880-39453-4	B-4-S-4	Soluble	Solid	DI Leach	
880-39453-5	B-5-S-4	Soluble	Solid	DI Leach	
MB 880-73229/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73229/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73229/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39453-1 MS	B-1-S-4	Soluble	Solid	DI Leach	
880-39453-1 MSD	B-1-S-4	Soluble	Solid	DI Leach	

Analysis Batch: 73260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39453-1	B-1-S-4	Soluble	Solid	300.0	73229
880-39453-2	B-2-S-4	Soluble	Solid	300.0	73229
880-39453-3	B-3-S-4	Soluble	Solid	300.0	73229
880-39453-4	B-4-S-4	Soluble	Solid	300.0	73229
880-39453-5	B-5-S-4	Soluble	Solid	300.0	73229
MB 880-73229/1-A	Method Blank	Soluble	Solid	300.0	73229
LCS 880-73229/2-A	Lab Control Sample	Soluble	Solid	300.0	73229
LCSD 880-73229/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73229
880-39453-1 MS	B-1-S-4	Soluble	Solid	300.0	73229
880-39453-1 MSD	B-1-S-4	Soluble	Solid	300.0	73229

Leach Batch: 73445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39535-1	B-6-S-4'	Soluble	Solid	DI Leach	
880-39535-2	B-7-S-4'	Soluble	Solid	DI Leach	
880-39535-3	SW-3-S-2'	Soluble	Solid	DI Leach	
880-39535-4	SW-2-S-2'	Soluble	Solid	DI Leach	
880-39535-5	B-8-S-4'	Soluble	Solid	DI Leach	
880-39535-6	B-9-S-4'	Soluble	Solid	DI Leach	
880-39535-7	B-10-S-4'	Soluble	Solid	DI Leach	
880-39535-8	B-11-S-4'	Soluble	Solid	DI Leach	
MB 880-73445/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73445/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73445/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 73456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39535-1	B-6-S-4'	Soluble	Solid	300.0	73445
880-39535-2	B-7-S-4'	Soluble	Solid	300.0	73445
880-39535-3	SW-3-S-2'	Soluble	Solid	300.0	73445
880-39535-4	SW-2-S-2'	Soluble	Solid	300.0	73445
880-39535-5	B-8-S-4'	Soluble	Solid	300.0	73445
880-39535-6	B-9-S-4'	Soluble	Solid	300.0	73445
880-39535-7	B-10-S-4'	Soluble	Solid	300.0	73445
880-39535-8	B-11-S-4'	Soluble	Solid	300.0	73445
MB 880-73445/1-A	Method Blank	Soluble	Solid	300.0	73445
LCS 880-73445/2-A	Lab Control Sample	Soluble	Solid	300.0	73445
LCSD 880-73445/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73445

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

HPLC/IC

Leach Batch: 73713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6221-1	SW-1-S-2	Soluble	Solid	DI Leach	
890-6221-2	B-12-5-4	Soluble	Solid	DI Leach	
890-6221-3	B-13-5-4	Soluble	Solid	DI Leach	
890-6221-4	B-14-5-4	Soluble	Solid	DI Leach	
890-6221-5	B-15-5-4	Soluble	Solid	DI Leach	
890-6221-6	B-16-5-4	Soluble	Solid	DI Leach	
890-6221-7	B-17-5-4	Soluble	Solid	DI Leach	
890-6221-8	B-18-5-4	Soluble	Solid	DI Leach	
MB 880-73713/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73713/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73713/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 73805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6221-1	SW-1-S-2	Soluble	Solid	300.0	73713
890-6221-2	B-12-5-4	Soluble	Solid	300.0	73713
890-6221-3	B-13-5-4	Soluble	Solid	300.0	73713
890-6221-4	B-14-5-4	Soluble	Solid	300.0	73713
890-6221-5	B-15-5-4	Soluble	Solid	300.0	73713
890-6221-6	B-16-5-4	Soluble	Solid	300.0	73713
890-6221-7	B-17-5-4	Soluble	Solid	300.0	73713
890-6221-8	B-18-5-4	Soluble	Solid	300.0	73713
MB 880-73713/1-A	Method Blank	Soluble	Solid	300.0	73713
LCS 880-73713/2-A	Lab Control Sample	Soluble	Solid	300.0	73713
LCSD 880-73713/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73713

Leach Batch: 73823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6230-1	B-23-5-4	Soluble	Solid	DI Leach	
890-6230-2	B-24-5-4	Soluble	Solid	DI Leach	
890-6230-3	B-19-5-4	Soluble	Solid	DI Leach	
890-6230-4	B-20-5-4	Soluble	Solid	DI Leach	
890-6230-5	B-21-5-4	Soluble	Solid	DI Leach	
890-6230-6	B-22--5-4	Soluble	Solid	DI Leach	
MB 880-73823/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73823/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73823/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6230-1 MS	B-23-5-4	Soluble	Solid	DI Leach	
890-6230-1 MSD	B-23-5-4	Soluble	Solid	DI Leach	

Analysis Batch: 73837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6230-1	B-23-5-4	Soluble	Solid	300.0	73823
890-6230-2	B-24-5-4	Soluble	Solid	300.0	73823
890-6230-3	B-19-5-4	Soluble	Solid	300.0	73823
890-6230-4	B-20-5-4	Soluble	Solid	300.0	73823
890-6230-5	B-21-5-4	Soluble	Solid	300.0	73823
890-6230-6	B-22--5-4	Soluble	Solid	300.0	73823
MB 880-73823/1-A	Method Blank	Soluble	Solid	300.0	73823
LCS 880-73823/2-A	Lab Control Sample	Soluble	Solid	300.0	73823
LCSD 880-73823/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73823

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

HPLC/IC (Continued)

Analysis Batch: 73837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6230-1 MS	B-23-5-4	Soluble	Solid	300.0	73823
890-6230-1 MSD	B-23-5-4	Soluble	Solid	300.0	73823

Leach Batch: 73903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6240-1	SW-4-5-2	Soluble	Solid	DI Leach	
890-6240-2	B-25-5-4	Soluble	Solid	DI Leach	
890-6240-3	B-26-5-4	Soluble	Solid	DI Leach	
890-6240-4	B--27-5-4	Soluble	Solid	DI Leach	
890-6240-5	B-28-5-4	Soluble	Solid	DI Leach	
890-6240-6	B-29-5-4	Soluble	Solid	DI Leach	
890-6240-7	B-30-5-4	Soluble	Solid	DI Leach	
MB 880-73903/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73903/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73903/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6240-7 MS	B-30-5-4	Soluble	Solid	DI Leach	
890-6240-7 MSD	B-30-5-4	Soluble	Solid	DI Leach	

Leach Batch: 73914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39825-1	SW-8S-2'	Soluble	Solid	DI Leach	
880-39825-2	B-31-S-4	Soluble	Solid	DI Leach	
880-39825-3	B-32-S-4	Soluble	Solid	DI Leach	
MB 880-73914/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73914/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73914/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 73923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39825-1	SW-8S-2'	Soluble	Solid	300.0	73914
880-39825-2	B-31-S-4	Soluble	Solid	300.0	73914
880-39825-3	B-32-S-4	Soluble	Solid	300.0	73914
MB 880-73914/1-A	Method Blank	Soluble	Solid	300.0	73914
LCS 880-73914/2-A	Lab Control Sample	Soluble	Solid	300.0	73914
LCSD 880-73914/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73914

Analysis Batch: 73936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6240-1	SW-4-5-2	Soluble	Solid	300.0	73903
890-6240-2	B-25-5-4	Soluble	Solid	300.0	73903
890-6240-3	B-26-5-4	Soluble	Solid	300.0	73903
890-6240-4	B--27-5-4	Soluble	Solid	300.0	73903
890-6240-5	B-28-5-4	Soluble	Solid	300.0	73903
890-6240-6	B-29-5-4	Soluble	Solid	300.0	73903
890-6240-7	B-30-5-4	Soluble	Solid	300.0	73903
MB 880-73903/1-A	Method Blank	Soluble	Solid	300.0	73903
LCS 880-73903/2-A	Lab Control Sample	Soluble	Solid	300.0	73903
LCSD 880-73903/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73903
890-6240-7 MS	B-30-5-4	Soluble	Solid	300.0	73903
890-6240-7 MSD	B-30-5-4	Soluble	Solid	300.0	73903

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

HPLC/IC

Leach Batch: 74040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39888-1	B-33-S-4	Soluble	Solid	DI Leach	
880-39888-2	B-34-S-4	Soluble	Solid	DI Leach	
MB 880-74040/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74040/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74040/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 74145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39888-1	B-33-S-4	Soluble	Solid	300.0	74040
880-39888-2	B-34-S-4	Soluble	Solid	300.0	74040
MB 880-74040/1-A	Method Blank	Soluble	Solid	300.0	74040
LCS 880-74040/2-A	Lab Control Sample	Soluble	Solid	300.0	74040
LCSD 880-74040/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74040

Leach Batch: 74215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6265-1	B - 35 - S - 4	Soluble	Solid	DI Leach	
890-6265-2	B - 36 - S - 4	Soluble	Solid	DI Leach	
890-6265-3	SW - 5 - S - 2	Soluble	Solid	DI Leach	
890-6265-4	B - 37 - S - 4	Soluble	Solid	DI Leach	
890-6265-5	B - 38 - S - 4	Soluble	Solid	DI Leach	
890-6265-6	B - 39 - S - 4	Soluble	Solid	DI Leach	
MB 880-74215/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74215/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74215/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6265-4 MS	B - 37 - S - 4	Soluble	Solid	DI Leach	
890-6265-4 MSD	B - 37 - S - 4	Soluble	Solid	DI Leach	

Analysis Batch: 74264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6265-1	B - 35 - S - 4	Soluble	Solid	300.0	74215
890-6265-2	B - 36 - S - 4	Soluble	Solid	300.0	74215
890-6265-3	SW - 5 - S - 2	Soluble	Solid	300.0	74215
890-6265-4	B - 37 - S - 4	Soluble	Solid	300.0	74215
890-6265-5	B - 38 - S - 4	Soluble	Solid	300.0	74215
890-6265-6	B - 39 - S - 4	Soluble	Solid	300.0	74215
MB 880-74215/1-A	Method Blank	Soluble	Solid	300.0	74215
LCS 880-74215/2-A	Lab Control Sample	Soluble	Solid	300.0	74215
LCSD 880-74215/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74215
890-6265-4 MS	B - 37 - S - 4	Soluble	Solid	300.0	74215
890-6265-4 MSD	B - 37 - S - 4	Soluble	Solid	300.0	74215

Leach Batch: 74325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-2	SW-5-S-2	Soluble	Solid	DI Leach	
880-40083-3	B-40-S-4	Soluble	Solid	DI Leach	
880-40083-4	B-41-S-4	Soluble	Solid	DI Leach	
880-40083-5	B-42-S-4	Soluble	Solid	DI Leach	
880-40083-8	B-43-S-4	Soluble	Solid	DI Leach	
880-40083-9	B-44-S-4	Soluble	Solid	DI Leach	
880-40083-10	B-45-S-4	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

HPLC/IC (Continued)

Leach Batch: 74325 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-11	B-46-S-4	Soluble	Solid	DI Leach	
880-40083-12	B-47-S-4	Soluble	Solid	DI Leach	
MB 880-74325/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74325/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74325/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40083-8 MS	B-43-S-4	Soluble	Solid	DI Leach	
880-40083-8 MSD	B-43-S-4	Soluble	Solid	DI Leach	

Leach Batch: 74329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-1	SW-6-S-2	Soluble	Solid	DI Leach	
880-40083-6	SW-7-S-2	Soluble	Solid	DI Leach	
880-40083-7	SW-7A-S-2	Soluble	Solid	DI Leach	
MB 880-74329/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74329/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74329/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40083-1 MS	SW-6-S-2	Soluble	Solid	DI Leach	
880-40083-1 MSD	SW-6-S-2	Soluble	Solid	DI Leach	

Analysis Batch: 74350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-1	SW-6-S-2	Soluble	Solid	300.0	74329
880-40083-6	SW-7-S-2	Soluble	Solid	300.0	74329
880-40083-7	SW-7A-S-2	Soluble	Solid	300.0	74329
MB 880-74329/1-A	Method Blank	Soluble	Solid	300.0	74329
LCS 880-74329/2-A	Lab Control Sample	Soluble	Solid	300.0	74329
LCSD 880-74329/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74329
880-40083-1 MS	SW-6-S-2	Soluble	Solid	300.0	74329
880-40083-1 MSD	SW-6-S-2	Soluble	Solid	300.0	74329

Analysis Batch: 74424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40083-2	SW-5-S-2	Soluble	Solid	300.0	74325
880-40083-3	B-40-S-4	Soluble	Solid	300.0	74325
880-40083-4	B-41-S-4	Soluble	Solid	300.0	74325
880-40083-5	B-42-S-4	Soluble	Solid	300.0	74325
880-40083-8	B-43-S-4	Soluble	Solid	300.0	74325
880-40083-9	B-44-S-4	Soluble	Solid	300.0	74325
880-40083-10	B-45-S-4	Soluble	Solid	300.0	74325
880-40083-11	B-46-S-4	Soluble	Solid	300.0	74325
880-40083-12	B-47-S-4	Soluble	Solid	300.0	74325
MB 880-74325/1-A	Method Blank	Soluble	Solid	300.0	74325
LCS 880-74325/2-A	Lab Control Sample	Soluble	Solid	300.0	74325
LCSD 880-74325/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74325
880-40083-8 MS	B-43-S-4	Soluble	Solid	300.0	74325
880-40083-8 MSD	B-43-S-4	Soluble	Solid	300.0	74325

Leach Batch: 74425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40159-1	B-48 -S-4	Soluble	Solid	DI Leach	
880-40159-2	B-49-S-4	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

HPLC/IC (Continued)

Leach Batch: 74425 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40159-3	B-50-S-4	Soluble	Solid	DI Leach	
880-40159-4	B-51-S-4	Soluble	Solid	DI Leach	
MB 880-74425/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74425/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74425/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40159-3 MS	B-50-S-4	Soluble	Solid	DI Leach	
880-40159-3 MSD	B-50-S-4	Soluble	Solid	DI Leach	

Analysis Batch: 74502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40159-1	B-48 -S-4	Soluble	Solid	300.0	74425
880-40159-2	B-49-S-4	Soluble	Solid	300.0	74425
880-40159-3	B-50-S-4	Soluble	Solid	300.0	74425
880-40159-4	B-51-S-4	Soluble	Solid	300.0	74425
MB 880-74425/1-A	Method Blank	Soluble	Solid	300.0	74425
LCS 880-74425/2-A	Lab Control Sample	Soluble	Solid	300.0	74425
LCSD 880-74425/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74425
880-40159-3 MS	B-50-S-4	Soluble	Solid	300.0	74425
880-40159-3 MSD	B-50-S-4	Soluble	Solid	300.0	74425

Leach Batch: 74552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-11	SW-5B-S-2'	Soluble	Solid	DI Leach	
MB 880-74552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 74576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-1	B-52-S-4'	Soluble	Solid	DI Leach	
880-40212-2	B-53-S-4'	Soluble	Solid	DI Leach	
880-40212-3	B-54-S-4'	Soluble	Solid	DI Leach	
880-40212-4	B-55-S-4'	Soluble	Solid	DI Leach	
880-40212-5	B-56-S-4'	Soluble	Solid	DI Leach	
880-40212-6	B-57-S-4'	Soluble	Solid	DI Leach	
880-40212-7	B-58-S-4'	Soluble	Solid	DI Leach	
880-40212-8	B-59-S-4'	Soluble	Solid	DI Leach	
880-40212-9	B-60-S-4'	Soluble	Solid	DI Leach	
880-40212-10	B-61-S-4'	Soluble	Solid	DI Leach	
MB 880-74576/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74576/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74576/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 74606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-11	SW-5B-S-2'	Soluble	Solid	300.0	74552
MB 880-74552/1-A	Method Blank	Soluble	Solid	300.0	74552
LCS 880-74552/2-A	Lab Control Sample	Soluble	Solid	300.0	74552
LCSD 880-74552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74552

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.

Job ID: 890-6265-1

Project/Site: SRO SWD #104 EDDY COUNTY

HPLC/IC

Analysis Batch: 74694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40212-1	B-52-S-4'	Soluble	Solid	300.0	74576
880-40212-2	B-53-S-4'	Soluble	Solid	300.0	74576
880-40212-3	B-54-S-4'	Soluble	Solid	300.0	74576
880-40212-4	B-55-S-4'	Soluble	Solid	300.0	74576
880-40212-5	B-56-S-4'	Soluble	Solid	300.0	74576
880-40212-6	B-57-S-4'	Soluble	Solid	300.0	74576
880-40212-7	B-58-S-4'	Soluble	Solid	300.0	74576
880-40212-8	B-59-S-4'	Soluble	Solid	300.0	74576
880-40212-9	B-60-S-4'	Soluble	Solid	300.0	74576
880-40212-10	B-61-S-4'	Soluble	Solid	300.0	74576
MB 880-74576/1-A	Method Blank	Soluble	Solid	300.0	74576
LCS 880-74576/2-A	Lab Control Sample	Soluble	Solid	300.0	74576
LCSD 880-74576/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74576

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-1-S-4

Lab Sample ID: 880-39453-1

Date Collected: 02/14/24 12:00

Matrix: Solid

Date Received: 02/15/24 09:31

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	73291	02/15/24 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73714	02/21/24 19:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			73626	02/19/24 18:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	73296	02/15/24 17:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 18:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73229	02/15/24 10:05	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	73260	02/15/24 14:46	SMC	EET MID

Client Sample ID: B-2-S-4

Lab Sample ID: 880-39453-2

Date Collected: 02/14/24 12:10

Matrix: Solid

Date Received: 02/15/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	73291	02/15/24 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73714	02/21/24 19:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			73626	02/19/24 18:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73296	02/15/24 17:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 18:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73229	02/15/24 10:05	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	73260	02/15/24 15:00	SMC	EET MID

Client Sample ID: B-3-S-4

Lab Sample ID: 880-39453-3

Date Collected: 02/14/24 12:20

Matrix: Solid

Date Received: 02/15/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	73291	02/15/24 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73714	02/21/24 19:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			73626	02/19/24 18:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73296	02/15/24 17:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 18:57	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73229	02/15/24 10:05	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	73260	02/15/24 15:05	SMC	EET MID

Client Sample ID: B-4-S-4

Lab Sample ID: 880-39453-4

Date Collected: 02/14/24 12:30

Matrix: Solid

Date Received: 02/15/24 09:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	73291	02/15/24 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73714	02/21/24 20:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			73626	02/19/24 19:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73296	02/15/24 17:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 19:21	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-4-S-4

Date Collected: 02/14/24 12:30

Date Received: 02/15/24 09:31

Lab Sample ID: 880-39453-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	73229	02/15/24 10:05	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	73260	02/15/24 15:09	SMC	EET MID

Client Sample ID: B-5-S-4

Date Collected: 02/14/24 12:40

Date Received: 02/15/24 09:31

Lab Sample ID: 880-39453-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	73291	02/15/24 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73714	02/21/24 20:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			73626	02/19/24 19:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73296	02/15/24 17:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 19:44	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73229	02/15/24 10:05	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	73260	02/15/24 15:14	SMC	EET MID

Client Sample ID: B-6-S-4'

Date Collected: 02/15/24 11:00

Date Received: 02/16/24 16:44

Lab Sample ID: 880-39535-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	73562	02/19/24 15:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/20/24 01:55	MNR	EET MID
Total/NA	Analysis	8015 NM		1			73744	02/20/24 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73548	02/19/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73602	02/20/24 15:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73445	02/19/24 09:42	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	73456	02/19/24 12:15	SMC	EET MID

Client Sample ID: B-7-S-4'

Date Collected: 02/15/24 11:10

Date Received: 02/16/24 16:44

Lab Sample ID: 880-39535-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	73562	02/19/24 15:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/20/24 02:22	MNR	EET MID
Total/NA	Analysis	8015 NM		1			73744	02/20/24 16:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73548	02/19/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73602	02/20/24 16:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73445	02/19/24 09:42	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	73456	02/19/24 12:21	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-3-S-2'

Date Collected: 02/15/24 14:30

Date Received: 02/16/24 16:44

Lab Sample ID: 880-39535-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	73562	02/19/24 15:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/20/24 02:48	MNR	EET MID
Total/NA	Analysis	8015 NM		1			73744	02/20/24 17:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73548	02/19/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73602	02/20/24 17:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73445	02/19/24 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73456	02/19/24 12:28	SMC	EET MID

Client Sample ID: SW-2-S-2'

Date Collected: 02/15/24 12:00

Date Received: 02/16/24 16:44

Lab Sample ID: 880-39535-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	73562	02/19/24 15:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/20/24 03:14	MNR	EET MID
Total/NA	Analysis	8015 NM		1			73744	02/20/24 17:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73548	02/19/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73602	02/20/24 17:34	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73445	02/19/24 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73456	02/19/24 14:59	SMC	EET MID

Client Sample ID: B-8-S-4'

Date Collected: 02/15/24 11:30

Date Received: 02/16/24 16:44

Lab Sample ID: 880-39535-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	73562	02/19/24 15:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/20/24 03:41	MNR	EET MID
Total/NA	Analysis	8015 NM		1			73744	02/20/24 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73548	02/19/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73602	02/20/24 18:03	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73445	02/19/24 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73456	02/19/24 12:56	SMC	EET MID

Client Sample ID: B-9-S-4'

Date Collected: 02/15/24 11:40

Date Received: 02/16/24 16:44

Lab Sample ID: 880-39535-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	73562	02/19/24 15:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/20/24 04:07	MNR	EET MID
Total/NA	Analysis	8015 NM		1			73744	02/20/24 18:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73548	02/19/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73602	02/20/24 18:31	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-9-S-4'

Lab Sample ID: 880-39535-6

Date Collected: 02/15/24 11:40

Matrix: Solid

Date Received: 02/16/24 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	73445	02/19/24 09:42	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	73456	02/19/24 13:03	SMC	EET MID

Client Sample ID: B-10-S-4'

Lab Sample ID: 880-39535-7

Date Collected: 02/15/24 11:50

Matrix: Solid

Date Received: 02/16/24 16:44

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	73562	02/19/24 15:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/20/24 04:33	MNR	EET MID
Total/NA	Analysis	8015 NM		1			73744	02/20/24 18:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73548	02/19/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73602	02/20/24 18:57	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73445	02/19/24 09:42	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73456	02/19/24 13:09	SMC	EET MID

Client Sample ID: B-11-S-4'

Lab Sample ID: 880-39535-8

Date Collected: 02/15/24 12:00

Matrix: Solid

Date Received: 02/16/24 16:44

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	73562	02/19/24 15:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/20/24 04:59	MNR	EET MID
Total/NA	Analysis	8015 NM		1			73744	02/20/24 19:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73548	02/19/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73602	02/20/24 19:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73445	02/19/24 09:42	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	73456	02/19/24 13:16	SMC	EET MID

Client Sample ID: SW-8S-2'

Lab Sample ID: 880-39825-1

Date Collected: 02/22/24 12:00

Matrix: Solid

Date Received: 02/23/24 09:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	74272	02/28/24 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/28/24 20:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			74416	02/29/24 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74242	02/28/24 10:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	02/29/24 14:26	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 14:03	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-31-S-4

Date Collected: 02/22/24 12:10

Date Received: 02/23/24 09:19

Lab Sample ID: 880-39825-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	74272	02/28/24 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/28/24 20:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			74416	02/29/24 14:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74242	02/28/24 10:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	02/29/24 14:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 17:15	SMC	EET MID

Client Sample ID: B-32-S-4

Date Collected: 02/22/24 15:00

Date Received: 02/23/24 09:19

Lab Sample ID: 880-39825-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	74272	02/28/24 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/28/24 20:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			74416	02/29/24 15:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	74242	02/28/24 10:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	02/29/24 15:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 17:22	SMC	EET MID

Client Sample ID: B-33-S-4

Date Collected: 02/23/24 11:30

Date Received: 02/26/24 10:30

Lab Sample ID: 880-39888-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	74289	02/28/24 16:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/29/24 04:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			74672	03/01/24 17:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74398	02/29/24 15:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 17:51	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74040	02/26/24 13:02	SMC	EET MID
Soluble	Analysis	300.0		1			74145	02/27/24 19:45	CH	EET MID

Client Sample ID: B-34-S-4

Date Collected: 02/23/24 11:40

Date Received: 02/26/24 10:30

Lab Sample ID: 880-39888-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	74289	02/28/24 16:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/29/24 04:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			74672	03/01/24 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74398	02/29/24 15:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 18:12	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-34-S-4

Date Collected: 02/23/24 11:40

Date Received: 02/26/24 10:30

Lab Sample ID: 880-39888-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	74040	02/26/24 13:02	SMC	EET MID
Soluble	Analysis	300.0		10			74145	02/27/24 19:53	CH	EET MID

Client Sample ID: SW-6-S-2

Date Collected: 02/27/24 11:40

Date Received: 02/29/24 07:55

Lab Sample ID: 880-40083-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 00:49	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 08:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 08:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74329	02/29/24 09:47	CH	EET MID
Soluble	Analysis	300.0		1			74350	02/29/24 11:22	CH	EET MID

Client Sample ID: SW-5A-S-2

Date Collected: 02/27/24 12:10

Date Received: 02/29/24 07:55

Lab Sample ID: 880-40083-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 01:10	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 10:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 10:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	74325	02/29/24 09:14	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	74424	03/01/24 07:29	CH	EET MID

Client Sample ID: B-40-S-4

Date Collected: 02/27/24 13:30

Date Received: 02/29/24 07:55

Lab Sample ID: 880-40083-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 01:30	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 10:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 10:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74325	02/29/24 09:14	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	74424	03/01/24 07:35	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-41-S-4

Lab Sample ID: 880-40083-4

Date Collected: 02/27/24 14:00

Matrix: Solid

Date Received: 02/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 01:51	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 10:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 10:48	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74325	02/29/24 09:14	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	74424	03/01/24 07:40	CH	EET MID

Client Sample ID: B-42-S-4

Lab Sample ID: 880-40083-5

Date Collected: 02/27/24 14:30

Matrix: Solid

Date Received: 02/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 02:11	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 11:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 11:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74325	02/29/24 09:14	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	74424	03/01/24 07:45	CH	EET MID

Client Sample ID: SW-7-S-2

Lab Sample ID: 880-40083-6

Date Collected: 02/28/24 09:50

Matrix: Solid

Date Received: 02/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 02:32	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 11:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	74329	02/29/24 09:47	CH	EET MID
Soluble	Analysis	300.0		1			74350	02/29/24 11:50	CH	EET MID

Client Sample ID: SW-7A-S-2

Lab Sample ID: 880-40083-7

Date Collected: 02/28/24 09:55

Matrix: Solid

Date Received: 02/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 02:53	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 11:53	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-7A-S-2

Lab Sample ID: 880-40083-7

Date Collected: 02/28/24 09:55

Matrix: Solid

Date Received: 02/29/24 07:55

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	74329	02/29/24 09:47	CH	EET MID
Soluble	Analysis	300.0		1			74350	02/29/24 11:54	CH	EET MID

Client Sample ID: B-43-S-4

Lab Sample ID: 880-40083-8

Date Collected: 02/28/24 10:20

Matrix: Solid

Date Received: 02/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 03:13	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 12:15	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	74325	02/29/24 09:14	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	74424	03/01/24 07:49	CH	EET MID

Client Sample ID: B-44-S-4

Lab Sample ID: 880-40083-9

Date Collected: 02/28/24 10:25

Matrix: Solid

Date Received: 02/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 03:34	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 12:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 12:37	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74325	02/29/24 09:14	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	74424	03/01/24 08:03	CH	EET MID

Client Sample ID: B-45-S-4

Lab Sample ID: 880-40083-10

Date Collected: 02/28/24 14:50

Matrix: Solid

Date Received: 02/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 03:54	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 12:59	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74325	02/29/24 09:14	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	74424	03/01/24 08:07	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-46-S-4

Lab Sample ID: 880-40083-11

Date Collected: 02/28/24 15:10

Matrix: Solid

Date Received: 02/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 05:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 13:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 13:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74325	02/29/24 09:14	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	74424	03/01/24 08:20	CH	EET MID

Client Sample ID: B-47-S-4

Lab Sample ID: 880-40083-12

Date Collected: 02/28/24 15:20

Matrix: Solid

Date Received: 02/29/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	74467	03/01/24 11:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/02/24 06:06	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74690	03/01/24 14:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	74402	02/29/24 15:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74447	03/01/24 14:04	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74325	02/29/24 09:14	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	74424	03/01/24 08:25	CH	EET MID

Client Sample ID: B-48 -S-4

Lab Sample ID: 880-40159-1

Date Collected: 02/29/24 09:52

Matrix: Solid

Date Received: 03/01/24 08:31

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	74677	03/04/24 14:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74749	03/05/24 13:19	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74785	03/04/24 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 17:59	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10			74502	03/01/24 16:40	CH	EET MID

Client Sample ID: B-49-S-4

Lab Sample ID: 880-40159-2

Date Collected: 02/29/24 15:00

Matrix: Solid

Date Received: 03/01/24 08:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	74677	03/04/24 14:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74749	03/05/24 13:40	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74785	03/04/24 18:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 18:20	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-49-S-4

Date Collected: 02/29/24 15:00

Date Received: 03/01/24 08:31

Lab Sample ID: 880-40159-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10			74502	03/01/24 16:46	CH	EET MID

Client Sample ID: B-50-S-4

Date Collected: 02/29/24 15:10

Date Received: 03/01/24 08:31

Lab Sample ID: 880-40159-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	74677	03/04/24 14:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74749	03/05/24 14:00	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74785	03/04/24 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 18:41	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10			74502	03/01/24 16:51	CH	EET MID

Client Sample ID: B-51-S-4

Date Collected: 02/29/24 15:15

Date Received: 03/01/24 08:31

Lab Sample ID: 880-40159-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	74677	03/04/24 14:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74749	03/05/24 14:21	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74785	03/04/24 19:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 19:02	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74425	03/01/24 14:00	SMC	EET MID
Soluble	Analysis	300.0		20			74502	03/01/24 17:08	CH	EET MID

Client Sample ID: B-52-S-4'

Date Collected: 03/01/24 10:00

Date Received: 03/04/24 08:00

Lab Sample ID: 880-40212-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 03:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/05/24 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74795	03/05/24 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/05/24 12:25	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		5			74694	03/04/24 15:32	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-53-S-4'**Lab Sample ID: 880-40212-2****Date Collected: 03/01/24 10:10****Matrix: Solid****Date Received: 03/04/24 08:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 04:16	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/05/24 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74795	03/05/24 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/05/24 13:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		1			74694	03/04/24 15:49	CH	EET MID

Client Sample ID: B-54-S-4'**Lab Sample ID: 880-40212-3****Date Collected: 03/01/24 10:20****Matrix: Solid****Date Received: 03/04/24 08:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 04:37	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/05/24 13:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74795	03/05/24 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/05/24 13:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		10			74694	03/04/24 15:55	CH	EET MID

Client Sample ID: B-55-S-4'**Lab Sample ID: 880-40212-4****Date Collected: 03/01/24 10:30****Matrix: Solid****Date Received: 03/04/24 08:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 04:57	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/05/24 20:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74795	03/05/24 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/05/24 20:22	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		5			74694	03/04/24 16:00	CH	EET MID

Client Sample ID: B-56-S-4'**Lab Sample ID: 880-40212-5****Date Collected: 03/01/24 10:40****Matrix: Solid****Date Received: 03/04/24 08:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 05:18	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/05/24 14:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74796	03/05/24 12:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74778	03/05/24 14:13	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-56-S-4'

Lab Sample ID: 880-40212-5

Date Collected: 03/01/24 10:40

Matrix: Solid

Date Received: 03/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		1			74694	03/04/24 16:06	CH	EET MID

Client Sample ID: B-57-S-4'

Lab Sample ID: 880-40212-6

Date Collected: 03/01/24 10:50

Matrix: Solid

Date Received: 03/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 05:38	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/05/24 14:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74796	03/05/24 12:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74778	03/05/24 14:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		10			74694	03/04/24 16:22	CH	EET MID

Client Sample ID: B-58-S-4'

Lab Sample ID: 880-40212-7

Date Collected: 03/01/24 11:00

Matrix: Solid

Date Received: 03/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 05:59	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/05/24 14:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74796	03/05/24 12:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74778	03/05/24 14:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		10			74694	03/04/24 16:28	CH	EET MID

Client Sample ID: B-59-S-4'

Lab Sample ID: 880-40212-8

Date Collected: 03/01/24 11:10

Matrix: Solid

Date Received: 03/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 06:19	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/05/24 15:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	74796	03/05/24 12:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74778	03/05/24 15:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		10			74694	03/04/24 16:34	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-60-S-4'

Date Collected: 03/01/24 11:20

Date Received: 03/04/24 08:00

Lab Sample ID: 880-40212-9

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	5030B			5.03 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 06:40	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/05/24 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74796	03/05/24 12:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74778	03/05/24 12:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		5			74694	03/04/24 16:39	CH	EET MID

Client Sample ID: B-61-S-4'

Date Collected: 03/01/24 11:30

Date Received: 03/04/24 08:00

Lab Sample ID: 880-40212-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 07:00	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/04/24 19:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 19:23	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74576	03/04/24 10:06	SMC	EET MID
Soluble	Analysis	300.0		5			74694	03/04/24 16:45	CH	EET MID

Client Sample ID: SW-5B-S-2'

Date Collected: 03/01/24 13:15

Date Received: 03/04/24 08:00

Lab Sample ID: 880-40212-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 08:23	MNR	EET MID
Total/NA	Analysis	8015 NM		1			74786	03/04/24 19:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 19:43	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 14:42	CH	EET MID

Client Sample ID: SW-1-S-2

Date Collected: 02/19/24 11:30

Date Received: 02/19/24 16:02

Lab Sample ID: 890-6221-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73892	02/22/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 04:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74067	02/25/24 04:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			73950	02/22/24 20:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73703	02/21/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 20:44	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-1-S-2

Lab Sample ID: 890-6221-1

Date Collected: 02/19/24 11:30

Matrix: Solid

Date Received: 02/19/24 16:02

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	73713	02/21/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1			73805	02/21/24 20:44	CH	EET MID

Client Sample ID: B-12-5-4

Lab Sample ID: 890-6221-2

Date Collected: 02/19/24 11:40

Matrix: Solid

Date Received: 02/19/24 16:02

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	73892	02/22/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 05:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74067	02/25/24 05:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			73950	02/22/24 21:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	73703	02/21/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 21:08	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73713	02/21/24 07:54	SA	EET MID
Soluble	Analysis	300.0		5			73805	02/21/24 20:49	CH	EET MID

Client Sample ID: B-13-5-4

Lab Sample ID: 890-6221-3

Date Collected: 02/19/24 11:50

Matrix: Solid

Date Received: 02/19/24 16:02

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	73892	02/22/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 06:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74067	02/25/24 06:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			73950	02/22/24 21:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73703	02/21/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 21:32	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73713	02/21/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1			73805	02/21/24 21:03	CH	EET MID

Client Sample ID: B-14-5-4

Lab Sample ID: 890-6221-4

Date Collected: 02/19/24 12:00

Matrix: Solid

Date Received: 02/19/24 16:02

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	73892	02/22/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 07:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74067	02/25/24 07:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			73950	02/22/24 21:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73703	02/21/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 21:55	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73713	02/21/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1			73805	02/21/24 21:07	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-15-5-4

Lab Sample ID: 890-6221-5

Date Collected: 02/19/24 12:10

Matrix: Solid

Date Received: 02/19/24 16:02

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	73892	02/22/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 07:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74067	02/25/24 07:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			73950	02/22/24 22:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73703	02/21/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 22:19	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73713	02/21/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1			73805	02/21/24 21:12	CH	EET MID

Client Sample ID: B-16-5-4

Lab Sample ID: 890-6221-6

Date Collected: 02/19/24 12:20

Matrix: Solid

Date Received: 02/19/24 16:02

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	73892	02/22/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 08:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74067	02/25/24 08:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			73950	02/22/24 22:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	73703	02/21/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 22:42	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73713	02/21/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1			73805	02/21/24 21:17	CH	EET MID

Client Sample ID: B-17-5-4

Lab Sample ID: 890-6221-7

Date Collected: 02/19/24 12:30

Matrix: Solid

Date Received: 02/19/24 16:02

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	73892	02/22/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 08:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74067	02/25/24 08:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			73950	02/22/24 23:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	73703	02/21/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 23:05	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73713	02/21/24 07:54	SA	EET MID
Soluble	Analysis	300.0		5			73805	02/21/24 21:21	CH	EET MID

Client Sample ID: B-18-5-4

Lab Sample ID: 890-6221-8

Date Collected: 02/19/24 12:40

Matrix: Solid

Date Received: 02/19/24 16:02

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	73892	02/22/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 08:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74067	02/25/24 08:41	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-18-5-4

Lab Sample ID: 890-6221-8

Date Collected: 02/19/24 12:40

Matrix: Solid

Date Received: 02/19/24 16:02

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			73950	02/22/24 23:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	73703	02/21/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 23:28	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73713	02/21/24 07:54	SA	EET MID
Soluble	Analysis	300.0		10			73805	02/21/24 21:26	CH	EET MID

Client Sample ID: B-23-5-4

Lab Sample ID: 890-6230-1

Date Collected: 02/20/24 15:00

Matrix: Solid

Date Received: 02/20/24 16:27

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	73775	02/21/24 11:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73859	02/22/24 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73953	02/22/24 19:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			73948	02/22/24 15:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73703	02/22/24 11:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 15:37	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73823	02/22/24 08:20	SA	EET MID
Soluble	Analysis	300.0		5			73837	02/22/24 11:42	CH	EET MID

Client Sample ID: B-24-5-4

Lab Sample ID: 890-6230-2

Date Collected: 02/20/24 15:10

Matrix: Solid

Date Received: 02/20/24 16:27

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	73775	02/21/24 11:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73859	02/22/24 20:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73953	02/22/24 20:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			73948	02/22/24 16:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	73703	02/22/24 11:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 16:04	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73823	02/22/24 08:20	SA	EET MID
Soluble	Analysis	300.0		10			73837	02/22/24 11:56	CH	EET MID

Client Sample ID: B-19-5-4

Lab Sample ID: 890-6230-3

Date Collected: 02/20/24 12:00

Matrix: Solid

Date Received: 02/20/24 16:27

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	73775	02/21/24 11:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73859	02/22/24 20:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73953	02/22/24 20:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			73948	02/22/24 16:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73703	02/22/24 11:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 16:32	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-19-5-4

Lab Sample ID: 890-6230-3

Date Collected: 02/20/24 12:00

Matrix: Solid

Date Received: 02/20/24 16:27

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	73823	02/22/24 08:20	SA	EET MID
Soluble	Analysis	300.0		5			73837	02/22/24 12:00	CH	EET MID

Client Sample ID: B-20-5-4

Lab Sample ID: 890-6230-4

Date Collected: 02/20/24 12:10

Matrix: Solid

Date Received: 02/20/24 16:27

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	73775	02/21/24 11:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73859	02/22/24 20:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73953	02/22/24 20:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			73948	02/22/24 16:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73703	02/22/24 11:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 16:59	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73823	02/22/24 08:20	SA	EET MID
Soluble	Analysis	300.0		5			73837	02/22/24 12:05	CH	EET MID

Client Sample ID: B-21-5-4

Lab Sample ID: 890-6230-5

Date Collected: 02/20/24 12:20

Matrix: Solid

Date Received: 02/20/24 16:27

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	73775	02/21/24 11:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73859	02/22/24 22:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73953	02/22/24 22:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			73948	02/22/24 17:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73703	02/22/24 11:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 17:26	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73823	02/22/24 08:20	SA	EET MID
Soluble	Analysis	300.0		5			73837	02/22/24 12:10	CH	EET MID

Client Sample ID: B-22--5-4

Lab Sample ID: 890-6230-6

Date Collected: 02/20/24 12:30

Matrix: Solid

Date Received: 02/20/24 16:27

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	73775	02/21/24 11:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73859	02/22/24 22:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73953	02/22/24 22:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			73948	02/22/24 17:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73703	02/22/24 11:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73819	02/22/24 17:51	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73823	02/22/24 08:20	SA	EET MID
Soluble	Analysis	300.0		5			73837	02/22/24 12:24	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: SW-4-5-2

Lab Sample ID: 890-6240-1

Date Collected: 02/21/24 11:20

Matrix: Solid

Date Received: 02/21/24 15:26

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	73881	02/23/24 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73858	02/23/24 15:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73975	02/23/24 15:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			74006	02/23/24 14:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 14:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73903	02/23/24 07:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73936	02/23/24 15:39	CH	EET MID

Client Sample ID: B-25-5-4

Lab Sample ID: 890-6240-2

Date Collected: 02/21/24 11:30

Matrix: Solid

Date Received: 02/21/24 15:26

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	73881	02/23/24 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73858	02/23/24 16:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73975	02/23/24 16:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			74006	02/23/24 15:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 15:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73903	02/23/24 07:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73936	02/23/24 15:59	CH	EET MID

Client Sample ID: B-26-5-4

Lab Sample ID: 890-6240-3

Date Collected: 02/21/24 11:40

Matrix: Solid

Date Received: 02/21/24 15:26

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	73881	02/23/24 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73858	02/23/24 16:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73975	02/23/24 16:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			74006	02/23/24 16:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 16:16	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73903	02/23/24 07:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73936	02/23/24 16:06	CH	EET MID

Client Sample ID: B--27-5-4

Lab Sample ID: 890-6240-4

Date Collected: 02/21/24 11:50

Matrix: Solid

Date Received: 02/21/24 15:26

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	73881	02/23/24 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73858	02/23/24 16:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73975	02/23/24 16:58	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B--27-5-4

Lab Sample ID: 890-6240-4

Date Collected: 02/21/24 11:50

Matrix: Solid

Date Received: 02/21/24 15:26

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			74006	02/23/24 16:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 16:39	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73903	02/23/24 07:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73936	02/23/24 16:13	CH	EET MID

Client Sample ID: B-28-5-4

Lab Sample ID: 890-6240-5

Date Collected: 02/21/24 12:00

Matrix: Solid

Date Received: 02/21/24 15:26

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	73881	02/23/24 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73858	02/23/24 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73975	02/23/24 17:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			74006	02/23/24 17:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 17:03	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73903	02/23/24 07:43	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	73936	02/23/24 16:20	CH	EET MID

Client Sample ID: B-29-5-4

Lab Sample ID: 890-6240-6

Date Collected: 02/21/24 12:10

Matrix: Solid

Date Received: 02/21/24 15:26

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	73881	02/23/24 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73858	02/23/24 17:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73975	02/23/24 17:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			74006	02/23/24 17:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 17:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73903	02/23/24 07:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	73936	02/23/24 16:27	CH	EET MID

Client Sample ID: B-30-5-4

Lab Sample ID: 890-6240-7

Date Collected: 02/21/24 12:20

Matrix: Solid

Date Received: 02/21/24 15:26

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	73881	02/23/24 11:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73858	02/23/24 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73975	02/23/24 18:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			74006	02/23/24 17:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 17:51	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B-30-5-4

Lab Sample ID: 890-6240-7

Date Collected: 02/21/24 12:20

Matrix: Solid

Date Received: 02/21/24 15:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	73903	02/23/24 07:43	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	73936	02/23/24 16:34	CH	EET MID

Client Sample ID: B - 35 - S - 4

Lab Sample ID: 890-6265-1

Date Collected: 02/26/24 10:35

Matrix: Solid

Date Received: 02/26/24 17:20

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	74272	02/28/24 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/28/24 17:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			74415	02/29/24 11:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74242	02/29/24 10:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	02/29/24 11:35	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74215	02/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		5			74264	02/28/24 14:10	CH	EET MID

Client Sample ID: B - 36 - S - 4

Lab Sample ID: 890-6265-2

Date Collected: 02/26/24 10:45

Matrix: Solid

Date Received: 02/26/24 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	74272	02/28/24 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/28/24 18:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			74415	02/29/24 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74242	02/29/24 10:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	02/29/24 12:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74215	02/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		5			74264	02/28/24 14:15	CH	EET MID

Client Sample ID: SW - 5 - S - 2

Lab Sample ID: 890-6265-3

Date Collected: 02/26/24 13:30

Matrix: Solid

Date Received: 02/26/24 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	74272	02/28/24 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/28/24 18:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			74415	02/29/24 13:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74242	02/29/24 10:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	02/29/24 13:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74215	02/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74264	02/28/24 14:19	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Client Sample ID: B - 37 - S - 4

Lab Sample ID: 890-6265-4

Date Collected: 02/26/24 13:40

Matrix: Solid

Date Received: 02/26/24 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	74272	02/28/24 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/28/24 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			74415	02/29/24 13:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74242	02/29/24 10:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	02/29/24 13:22	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74215	02/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74264	02/28/24 14:24	CH	EET MID

Client Sample ID: B - 38 - S - 4

Lab Sample ID: 890-6265-5

Date Collected: 02/26/24 13:50

Matrix: Solid

Date Received: 02/26/24 17:20

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	74272	02/28/24 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/28/24 19:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			74415	02/29/24 13:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	74242	02/29/24 10:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	02/29/24 13:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74215	02/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		10			74264	02/28/24 14:38	CH	EET MID

Client Sample ID: B - 39 - S - 4

Lab Sample ID: 890-6265-6

Date Collected: 02/26/24 16:30

Matrix: Solid

Date Received: 02/26/24 17:20

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	74272	02/28/24 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74273	02/28/24 19:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			74415	02/29/24 14:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74242	02/29/24 10:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74320	02/29/24 14:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74215	02/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		5			74264	02/28/24 14:43	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

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

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: SRO SWD #104 EDDY COUNTY

Job ID: 890-6265-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-39453-1	B-1-S-4	Solid	02/14/24 12:00	02/15/24 09:31
880-39453-2	B-2-S-4	Solid	02/14/24 12:10	02/15/24 09:31
880-39453-3	B-3-S-4	Solid	02/14/24 12:20	02/15/24 09:31
880-39453-4	B-4-S-4	Solid	02/14/24 12:30	02/15/24 09:31
880-39453-5	B-5-S-4	Solid	02/14/24 12:40	02/15/24 09:31
880-39535-1	B-6-S-4'	Solid	02/15/24 11:00	02/16/24 16:44
880-39535-2	B-7-S-4'	Solid	02/15/24 11:10	02/16/24 16:44
880-39535-3	SW-3-S-2'	Solid	02/15/24 14:30	02/16/24 16:44
880-39535-4	SW-2-S-2'	Solid	02/15/24 12:00	02/16/24 16:44
880-39535-5	B-8-S-4'	Solid	02/15/24 11:30	02/16/24 16:44
880-39535-6	B-9-S-4'	Solid	02/15/24 11:40	02/16/24 16:44
880-39535-7	B-10-S-4'	Solid	02/15/24 11:50	02/16/24 16:44
880-39535-8	B-11-S-4'	Solid	02/15/24 12:00	02/16/24 16:44
880-39825-1	SW-8S-2'	Solid	02/22/24 12:00	02/23/24 09:19
880-39825-2	B-31-S-4	Solid	02/22/24 12:10	02/23/24 09:19
880-39825-3	B-32-S-4	Solid	02/22/24 15:00	02/23/24 09:19
880-39888-1	B-33-S-4	Solid	02/23/24 11:30	02/26/24 10:30
880-39888-2	B-34-S-4	Solid	02/23/24 11:40	02/26/24 10:30
880-40083-1	SW-6-S-2	Solid	02/27/24 11:40	02/29/24 07:55
880-40083-2	SW-5-S-2	Solid	02/27/24 12:10	02/29/24 07:55
880-40083-3	B-40-S-4	Solid	02/27/24 13:30	02/29/24 07:55
880-40083-4	B-41-S-4	Solid	02/27/24 14:00	02/29/24 07:55
880-40083-5	B-42-S-4	Solid	02/27/24 14:30	02/29/24 07:55
880-40083-6	SW-7-S-2	Solid	02/28/24 09:50	02/29/24 07:55
880-40083-7	SW-7A-S-2	Solid	02/28/24 09:55	02/29/24 07:55
880-40083-8	B-43-S-4	Solid	02/28/24 10:20	02/29/24 07:55
880-40083-9	B-44-S-4	Solid	02/28/24 10:25	02/29/24 07:55
880-40083-10	B-45-S-4	Solid	02/28/24 14:50	02/29/24 07:55
880-40083-11	B-46-S-4	Solid	02/28/24 15:10	02/29/24 07:55
880-40083-12	B-47-S-4	Solid	02/28/24 15:20	02/29/24 07:55
880-40159-1	B-48 -S-4	Solid	02/29/24 09:52	03/01/24 08:31
880-40159-2	B-49-S-4	Solid	02/29/24 15:00	03/01/24 08:31
880-40159-3	B-50-S-4	Solid	02/29/24 15:10	03/01/24 08:31
880-40159-4	B-51-S-4	Solid	02/29/24 15:15	03/01/24 08:31
880-40212-1	B-52-S-4'	Solid	03/01/24 10:00	03/04/24 08:00
880-40212-2	B-53-S-4'	Solid	03/01/24 10:10	03/04/24 08:00
880-40212-3	B-54-S-4'	Solid	03/01/24 10:20	03/04/24 08:00
880-40212-4	B-55-S-4'	Solid	03/01/24 10:30	03/04/24 08:00
880-40212-5	B-56-S-4'	Solid	03/01/24 10:40	03/04/24 08:00
880-40212-6	B-57-S-4'	Solid	03/01/24 10:50	03/04/24 08:00
880-40212-7	B-58-S-4'	Solid	03/01/24 11:00	03/04/24 08:00
880-40212-8	B-59-S-4'	Solid	03/01/24 11:10	03/04/24 08:00
880-40212-9	B-60-S-4'	Solid	03/01/24 11:20	03/04/24 08:00
880-40212-10	B-61-S-4'	Solid	03/01/24 11:30	03/04/24 08:00
880-40212-11	SW-5B-S-2'	Solid	03/01/24 13:15	03/04/24 08:00
890-6221-1	SW-1-S-2	Solid	02/19/24 11:30	02/19/24 16:02
890-6221-2	B-12-S-4	Solid	02/19/24 11:40	02/19/24 16:02
890-6221-3	B-13-S-4	Solid	02/19/24 11:50	02/19/24 16:02
890-6221-4	B-14-S-4	Solid	02/19/24 12:00	02/19/24 16:02
890-6221-5	B-15-S-4	Solid	02/19/24 12:10	02/19/24 16:02
890-6221-6	B-16-S-4	Solid	02/19/24 12:20	02/19/24 16:02
890-6221-7	B-17-S-4	Solid	02/19/24 12:30	02/19/24 16:02
890-6221-8	B-18-S-4	Solid	02/19/24 12:40	02/19/24 16:02
890-6230-1	B-23-S-4	Solid	02/20/24 15:00	02/20/24 16:27

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD #104 EDDY COUNTY

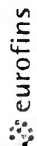
Job ID: 890-6265-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6230-2	B-24-5-4	Solid	02/20/24 15:10	02/20/24 16:27
890-6230-3	B-19-5-4	Solid	02/20/24 12:00	02/20/24 16:27
890-6230-4	B-20-5-4	Solid	02/20/24 12:10	02/20/24 16:27
890-6230-5	B-21-5-4	Solid	02/20/24 12:20	02/20/24 16:27
890-6230-6	B-22--5-4	Solid	02/20/24 12:30	02/20/24 16:27
890-6240-1	SW-4-5-2	Solid	02/21/24 11:20	02/21/24 15:26
890-6240-2	B-25-5-4	Solid	02/21/24 11:30	02/21/24 15:26
890-6240-3	B-26-5-4	Solid	02/21/24 11:40	02/21/24 15:26
890-6240-4	B--27-5-4	Solid	02/21/24 11:50	02/21/24 15:26
890-6240-5	B-28-5-4	Solid	02/21/24 12:00	02/21/24 15:26
890-6240-6	B-29-5-4	Solid	02/21/24 12:10	02/21/24 15:26
890-6240-7	B-30-5-4	Solid	02/21/24 12:20	02/21/24 15:26
890-6265-1	B - 35 - S - 4	Solid	02/26/24 10:35	02/26/24 17:20
890-6265-2	B - 36 - S - 4	Solid	02/26/24 10:45	02/26/24 17:20
890-6265-3	SW - 5 - S - 2	Solid	02/26/24 13:30	02/26/24 17:20
890-6265-4	B - 37 - S - 4	Solid	02/26/24 13:40	02/26/24 17:20
890-6265-5	B - 38 - S - 4	Solid	02/26/24 13:50	02/26/24 17:20
890-6265-6	B - 39 - S - 4	Solid	02/26/24 16:30	02/26/24 17:20

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information Client Contact: Justin Nixon Company: ARCADIS US Inc Address: 1004 North Big Spring Suite 300 City: Midland State: TX Zip: 79701 Phone: 432-296-9547(Tel) Email: Justin.Nixon@arcadis.com Project Name: SRO SWD #104 Site: Eddy County NM		Sampler: Daniel McLeod Lab PM: Builes, John E-Mail: John.Builes@et.eurofinsus.com PWSID:	Carrier Tracking No(s): 880-8347-1180.8 State of Origin: NM Page: 8 of 12 Job #: 1081	COC No: 880-8347-1180.8 Page: 8 of 12 Job #: 1081
Analysis Requested Due Date Requested: TAT Requested (days): 24 hr RUSH delivery Standard for btx & TPH Compliance Project: ☐ Yes ☒ No PO #: 30214270-03 WO #: 88001850 Project #: 88001850 SOW#:		Preservation Codes: 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:		
890-6265 Chain of Custody 		300_ORGFM_28D, 8015MOD_NM, 8021B		
Sample Identification B-35-S-4 B-36-S-4 5W-5-S-2 B-37-S-4 B-38-S-4 B-39-S-4	Sample Date 2-26-24 10:35 1645 1330 1340 1350 2-26-24	Sample Time C C C C C C	Matrix (Weaver, Seacold, Onweat, BT-Tissue, AVAL) Solid Solid Solid Solid Solid Solid	Field Filtered Sample (Yes or No) N N N N N N
Special Instructions/Note: Total Number of Containers: 1 1 1 1 1 1		Special Instructions/Note: 1 1 1 1 1 1		
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months				
Special Instructions/OC Requirements:				
Empty Kit Relinquished by:		Date:		
Relinquished by:		Date/Time: 2-26-24 / 1822		
Relinquished by:		Date/Time:		
Relinquished by:		Date/Time:		
Relinquished by:		Date/Time:		
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.:		

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6265-1

Login Number: 6265

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6265-1

Login Number: 6265

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/28/24 12:52 PM

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



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

ANALYTICAL REPORT

PREPARED FOR

Attn: Luis Rivera
R360 ES Holdings Inc
507 N Marienfield
Midland, Texas 79701
Generated 3/11/2024 8:44:03 AM

JOB DESCRIPTION

R360 -backfill
Redbluff

JOB NUMBER

890-6294-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
3/11/2024 8:44:03 AM

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

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Laboratory Job ID: 890-6294-1
SDG: Redbluff

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	16

1

2

3

4

5

6

7

8

9

10

11

12

13

Definitions/Glossary

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

Qualifiers

HPLC/IC

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

Glossary

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

Case Narrative

Client: R360 ES Holdings Inc
Project: R360 -backfill

Job ID: 890-6294-1

Job ID: 890-6294-1

Eurofins Carlsbad

Job Narrative 890-6294-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/1/2024 8:49 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 2.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: W 31 (890-6294-1), W 32 (890-6294-2), W 33 (890-6294-3), W 34 (890-6294-4), W 35 (890-6294-5), S 97 (890-6294-6), S 98 (890-6294-7), S 99 (890-6294-8), S 100 (890-6294-9) and S 101 (890-6294-10).

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74626 and analytical batch 880-75085 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Carlsbad

Client Sample Results

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

Client Sample ID: W 31

Lab Sample ID: 890-6294-1

Date Collected: 03/01/24 06:18

Matrix: Solid

Date Received: 03/01/24 08:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.3	F1	4.97	0.393	mg/Kg			03/09/24 01:34	1

Client Sample ID: W 32

Lab Sample ID: 890-6294-2

Date Collected: 03/01/24 06:18

Matrix: Solid

Date Received: 03/01/24 08:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		5.01	0.396	mg/Kg			03/09/24 01:51	1

Client Sample ID: W 33

Lab Sample ID: 890-6294-3

Date Collected: 03/01/24 06:18

Matrix: Solid

Date Received: 03/01/24 08:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.0		4.99	0.394	mg/Kg			03/09/24 01:57	1

Client Sample ID: W 34

Lab Sample ID: 890-6294-4

Date Collected: 03/01/24 06:18

Matrix: Solid

Date Received: 03/01/24 08:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.9		5.00	0.395	mg/Kg			03/09/24 02:02	1

Client Sample ID: W 35

Lab Sample ID: 890-6294-5

Date Collected: 03/01/24 06:18

Matrix: Solid

Date Received: 03/01/24 08:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.5		5.04	0.398	mg/Kg			03/09/24 02:08	1

Client Sample ID: S 97

Lab Sample ID: 890-6294-6

Date Collected: 03/01/24 06:18

Matrix: Solid

Date Received: 03/01/24 08:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		4.96	0.392	mg/Kg			03/09/24 02:25	1

Client Sample ID: S 98

Lab Sample ID: 890-6294-7

Date Collected: 03/01/24 06:18

Matrix: Solid

Date Received: 03/01/24 08:49

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		5.02	0.397	mg/Kg			03/09/24 02:31	1

Eurofins Carlsbad

Client Sample Results

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

Client Sample ID: S 99
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-8
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		4.96	0.392	mg/Kg			03/09/24 02:37	1

Client Sample ID: S 100
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.05	0.399	mg/Kg			03/09/24 02:42	1

Client Sample ID: S 101
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-10
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		5.05	0.399	mg/Kg			03/09/24 02:48	1

QC Sample Results

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74626/1-A Matrix: Solid Analysis Batch: 75085										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			03/09/24 01:17	1			

Lab Sample ID: LCS 880-74626/2-A Matrix: Solid Analysis Batch: 75085										Client Sample ID: Lab Control Sample Prep Type: Soluble		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride			250	266.8		mg/Kg		107	90 - 110			

Lab Sample ID: LCSD 880-74626/3-A Matrix: Solid Analysis Batch: 75085										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	264.8		mg/Kg		106	90 - 110	1	20	

Lab Sample ID: 890-6294-1 MS Matrix: Solid Analysis Batch: 75085										Client Sample ID: W 31 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	73.3	F1	249	351.9	F1	mg/Kg		112	90 - 110			

Lab Sample ID: 890-6294-1 MSD Matrix: Solid Analysis Batch: 75085										Client Sample ID: W 31 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	73.3	F1	249	346.4		mg/Kg		110	90 - 110	2	20	

QC Association Summary

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

HPLC/IC

Leach Batch: 74626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6294-1	W 31	Soluble	Solid	DI Leach	
890-6294-2	W 32	Soluble	Solid	DI Leach	
890-6294-3	W 33	Soluble	Solid	DI Leach	
890-6294-4	W 34	Soluble	Solid	DI Leach	
890-6294-5	W 35	Soluble	Solid	DI Leach	
890-6294-6	S 97	Soluble	Solid	DI Leach	
890-6294-7	S 98	Soluble	Solid	DI Leach	
890-6294-8	S 99	Soluble	Solid	DI Leach	
890-6294-9	S 100	Soluble	Solid	DI Leach	
890-6294-10	S 101	Soluble	Solid	DI Leach	
MB 880-74626/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74626/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74626/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6294-1 MS	W 31	Soluble	Solid	DI Leach	
890-6294-1 MSD	W 31	Soluble	Solid	DI Leach	

Analysis Batch: 75085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6294-1	W 31	Soluble	Solid	300.0	74626
890-6294-2	W 32	Soluble	Solid	300.0	74626
890-6294-3	W 33	Soluble	Solid	300.0	74626
890-6294-4	W 34	Soluble	Solid	300.0	74626
890-6294-5	W 35	Soluble	Solid	300.0	74626
890-6294-6	S 97	Soluble	Solid	300.0	74626
890-6294-7	S 98	Soluble	Solid	300.0	74626
890-6294-8	S 99	Soluble	Solid	300.0	74626
890-6294-9	S 100	Soluble	Solid	300.0	74626
890-6294-10	S 101	Soluble	Solid	300.0	74626
MB 880-74626/1-A	Method Blank	Soluble	Solid	300.0	74626
LCS 880-74626/2-A	Lab Control Sample	Soluble	Solid	300.0	74626
LCSD 880-74626/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74626
890-6294-1 MS	W 31	Soluble	Solid	300.0	74626
890-6294-1 MSD	W 31	Soluble	Solid	300.0	74626

Eurofins Carlsbad

Lab Chronicle

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

Client Sample ID: W 31
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 01:34	CH	EET MID

Client Sample ID: W 32
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 01:51	CH	EET MID

Client Sample ID: W 33
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-3
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	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 01:57	CH	EET MID

Client Sample ID: W 34
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-4
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			5.00 g	50 mL	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 02:02	CH	EET MID

Client Sample ID: W 35
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 02:08	CH	EET MID

Client Sample ID: S 97
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 02:25	CH	EET MID

Lab Chronicle

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

Client Sample ID: S 98
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 02:31	CH	EET MID

Client Sample ID: S 99
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 02:37	CH	EET MID

Client Sample ID: S 100
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 02:42	CH	EET MID

Client Sample ID: S 101
Date Collected: 03/01/24 06:18
Date Received: 03/01/24 08:49

Lab Sample ID: 890-6294-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	74626	03/05/24 12:03	SMC	EET MID
Soluble	Analysis	300.0		1			75085	03/09/24 02:48	CH	EET MID

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

Accreditation/Certification Summary

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

Method Summary

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency

Laboratory References:

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

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

Sample Summary

Client: R360 ES Holdings Inc
Project/Site: R360 -backfill

Job ID: 890-6294-1
SDG: Redbluff

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6294-1	W 31	Solid	03/01/24 06:18	03/01/24 08:49
890-6294-2	W 32	Solid	03/01/24 06:18	03/01/24 08:49
890-6294-3	W 33	Solid	03/01/24 06:18	03/01/24 08:49
890-6294-4	W 34	Solid	03/01/24 06:18	03/01/24 08:49
890-6294-5	W 35	Solid	03/01/24 06:18	03/01/24 08:49
890-6294-6	S 97	Solid	03/01/24 06:18	03/01/24 08:49
890-6294-7	S 98	Solid	03/01/24 06:18	03/01/24 08:49
890-6294-8	S 99	Solid	03/01/24 06:18	03/01/24 08:49
890-6294-9	S 100	Solid	03/01/24 06:18	03/01/24 08:49
890-6294-10	S 101	Solid	03/01/24 06:18	03/01/24 08:49

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



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Richardson, TX (469) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco

Work Order No:

www.xenco.com Page of

Project Manager:	<i>Justin Rivera</i>	Bill to: (if different)	
Company Name:	<i>R360ES</i>	Company Name:	
Address:	<i>5053 US Hwy 28S</i>	Address:	
City, State ZIP:	<i>Orlando TX 79790</i>	City, State ZIP:	
Phone:	<i>(405) 351-2694</i>	Email:	<i>justin@r360es.com</i>

Project Name:	<i>Backfill</i>	Turn Around	☒ Routine ☐ Rush	Pres. Code	
P Project Number:		Due Date:			
Project Location:	<i>Red Bluff</i>	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	<i>Justin Rivera</i>	Yes No	Yes No		
PO #:		Temp Blank:	Thermometer ID:		
		Yes No	Correction Factor:		
		Yes No	Temperature Reading:		
		Yes No	Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters
<i>W#31</i>		<i>3/1/24</i>	<i>6:18 AM</i>			<i>1</i>	
<i>W#32</i>						<i>1</i>	
<i>W#33</i>						<i>1</i>	
<i>W#34</i>						<i>1</i>	
<i>W#35</i>						<i>1</i>	
<i>S#37</i>						<i>1</i>	
<i>S#38</i>						<i>1</i>	
<i>S#39</i>						<i>1</i>	
<i>S#100</i>						<i>1</i>	
<i>S#101</i>						<i>1</i>	

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471		

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Justin Rivera</i>	<i>Justin Rivera</i>	<i>3/1/24</i>	<i>Justin Rivera</i>	<i>Justin Rivera</i>	<i>3/1/24</i>

Revised Date 08/23/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: R360 ES Holdings Inc

Job Number: 890-6294-1

SDG Number: Redbluff

Login Number: 6294

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: R360 ES Holdings Inc

Job Number: 890-6294-1

SDG Number: Redbluff

Login Number: 6294

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/04/24 12:22 PM

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



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 4/25/2024 2:43:15 PM

JOB DESCRIPTION

SRO SWD 104

JOB NUMBER

890-6524-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
4/25/2024 2:43:15 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Laboratory Job ID: 890-6524-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

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

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

Qualifiers

GC 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.

GC Semi VOA

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

Glossary

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: SRO SWD 104

Job ID: 890-6524-1

Job ID: 890-6524-1

Eurofins Carlsbad

Job Narrative 890-6524-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The sample was received on 4/22/2024 4:15 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 15.8°C.

Receipt Exceptions

The following were received and analyzed from an unpreserved bulk soil jar: BACKFILL (890-6524-1).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-79283 and analytical batch 880-79277 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.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-78950 and analytical batch 880-79188 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

Client Sample ID: BACKFILL

Lab Sample ID: 890-6524-1

Date Collected: 04/22/24 15:11

Matrix: Solid

Date Received: 04/22/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201		mg/Kg		04/25/24 08:32	04/25/24 11:56	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		04/25/24 08:32	04/25/24 11:56	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		04/25/24 08:32	04/25/24 11:56	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		04/25/24 08:32	04/25/24 11:56	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		04/25/24 08:32	04/25/24 11:56	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		04/25/24 08:32	04/25/24 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/25/24 08:32	04/25/24 11:56	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/25/24 08:32	04/25/24 11:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/25/24 11:56	1

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

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		04/22/24 13:40	04/24/24 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/22/24 13:40	04/24/24 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/22/24 13:40	04/24/24 10:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/22/24 13:40	04/24/24 10:10	1
o-Terphenyl	79		70 - 130	04/22/24 13:40	04/24/24 10:10	1

Eurofins Carlsbad

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-6524-1	BACKFILL	117	93
LCS 880-79283/1-A	Lab Control Sample	109	89
LCSD 880-79283/2-A	Lab Control Sample Dup	112	101
MB 880-79283/5-A	Method Blank	113	88
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6524-1	BACKFILL	92	79
890-6524-1 MS	BACKFILL	108	85
890-6524-1 MSD	BACKFILL	91	73
LCS 880-78950/2-A	Lab Control Sample	99	99
LCSD 880-78950/3-A	Lab Control Sample Dup	88	94
MB 880-78950/1-A	Method Blank	129	113
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-79283/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 79277							Prep Batch: 79283		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/25/24 08:32	04/25/24 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/25/24 08:32	04/25/24 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/25/24 08:32	04/25/24 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/25/24 08:32	04/25/24 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/25/24 08:32	04/25/24 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/25/24 08:32	04/25/24 11:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				04/25/24 08:32	04/25/24 11:14	1
1,4-Difluorobenzene (Surr)	88		70 - 130				04/25/24 08:32	04/25/24 11:14	1

Lab Sample ID: LCS 880-79283/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 79277							Prep Batch: 79283		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.05239	*-	mg/Kg		52	70 - 130		
Toluene	0.100	0.02566	*-	mg/Kg		26	70 - 130		
Ethylbenzene	0.100	0.01024	*-	mg/Kg		10	70 - 130		
m-Xylene & p-Xylene	0.200	0.01678	*-	mg/Kg		8	70 - 130		
o-Xylene	0.100	0.01041	*-	mg/Kg		10	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	89		70 - 130						

Lab Sample ID: LCSD 880-79283/2-A							Client Sample ID: Lab Control Sample Dup				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 79277							Prep Batch: 79283				
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD		
							Limits	RPD	Limits	RPD	
Benzene	0.100	0.1092	*1	mg/Kg		109	70 - 130	70	35		
Toluene	0.100	0.1040	*1	mg/Kg		104	70 - 130	121	35		
Ethylbenzene	0.100	0.1018	*1	mg/Kg		102	70 - 130	163	35		
m-Xylene & p-Xylene	0.200	0.2029	*1	mg/Kg		101	70 - 130	169	35		
o-Xylene	0.100	0.1034	*1	mg/Kg		103	70 - 130	163	35		
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

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

Lab Sample ID: MB 880-78950/1-A

Matrix: Solid

Analysis Batch: 79188

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 78950

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		04/22/24 13:40	04/24/24 07:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/22/24 13:40	04/24/24 07:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/22/24 13:40	04/24/24 07:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				04/22/24 13:40	04/24/24 07:43	1
o-Terphenyl	113		70 - 130				04/22/24 13:40	04/24/24 07:43	1

Lab Sample ID: LCS 880-78950/2-A

Matrix: Solid

Analysis Batch: 79188

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 78950

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	859.1		mg/Kg		86	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	99		70 - 130				

Lab Sample ID: LCSD 880-78950/3-A

Matrix: Solid

Analysis Batch: 79188

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 78950

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1022		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	900.8		mg/Kg		90	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	88		70 - 130						
o-Terphenyl	94		70 - 130						

Lab Sample ID: 890-6524-1 MS

Matrix: Solid

Analysis Batch: 79188

Client Sample ID: BACKFILL

Prep Type: Total/NA

Prep Batch: 78950

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 F1	1000	1374	F1	mg/Kg		135	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1074		mg/Kg		107	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

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

Lab Sample ID: 890-6524-1 MS
Matrix: Solid
Analysis Batch: 79188

Client Sample ID: BACKFILL
Prep Type: Total/NA
Prep Batch: 78950

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-6524-1 MSD
Matrix: Solid
Analysis Batch: 79188

Client Sample ID: BACKFILL
Prep Type: Total/NA
Prep Batch: 78950

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 F1	1000	1209		mg/Kg		118	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	935.1		mg/Kg		94	70 - 130	14	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	73		70 - 130

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

GC VOA

Analysis Batch: 79277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6524-1	BACKFILL	Total/NA	Solid	8021B	79283
MB 880-79283/5-A	Method Blank	Total/NA	Solid	8021B	79283
LCS 880-79283/1-A	Lab Control Sample	Total/NA	Solid	8021B	79283
LCSD 880-79283/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	79283

Prep Batch: 79283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6524-1	BACKFILL	Total/NA	Solid	5035	
MB 880-79283/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-79283/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-79283/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 79339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6524-1	BACKFILL	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 78950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6524-1	BACKFILL	Total/NA	Solid	8015NM Prep	
MB 880-78950/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-78950/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-78950/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6524-1 MS	BACKFILL	Total/NA	Solid	8015NM Prep	
890-6524-1 MSD	BACKFILL	Total/NA	Solid	8015NM Prep	

Analysis Batch: 79188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6524-1	BACKFILL	Total/NA	Solid	8015B NM	78950
MB 880-78950/1-A	Method Blank	Total/NA	Solid	8015B NM	78950
LCS 880-78950/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	78950
LCSD 880-78950/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	78950
890-6524-1 MS	BACKFILL	Total/NA	Solid	8015B NM	78950
890-6524-1 MSD	BACKFILL	Total/NA	Solid	8015B NM	78950

Analysis Batch: 79304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6524-1	BACKFILL	Total/NA	Solid	8015 NM	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

Client Sample ID: BACKFILL

Lab Sample ID: 890-6524-1

Date Collected: 04/22/24 15:11

Matrix: Solid

Date Received: 04/22/24 16:15

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	79283	04/25/24 08:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79277	04/25/24 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			79339	04/25/24 11:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			79304	04/24/24 10:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	78950	04/22/24 13:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79188	04/24/24 10:10	AJ	EET MID

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: SRO SWD 104

Job ID: 890-6524-1

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: SRO SWD 104

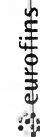
Job ID: 890-6524-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6524-1	BACKFILL	Solid	04/22/24 15:11	04/22/24 16:15

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

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone (717) 656-2300

Chain of Custody Record



Environment Testing
America

Client Information Client Contact: Justin Nixon Company: Arcadis		Sampler: Christopher Payton Lab PM: Phone: 432-296-9547 E-Mail:		Carrier Tracking No(s): State of Origin: NM COC No: Page: 1 of 1							
Address: 1004 N Big Spring St, Suite 121 City: Midland State, Zip: TX, 79703 Phone: 432-296-9547 Email: Justin.nixon@arcadis.com Project Name: SRO SWD #104 Site: New Mexico		PWSID: Due Date Requested: TAT Requested (days): Same Day Compliance Project: ☐ Yes ☒ No PO #: WO #: Project #: SSOW#:		Analysis Requested Job #: Preservation Codes: A - HCL B - NHOH C - Zn Acetate D - Zn Acetate E - Zn Acetate F - Zn Acetate G - Zn Acetate H - Zn Acetate I - Zn Acetate J - Zn Acetate K - Zn Acetate L - Zn Acetate M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-6 Z - other (specify)							
Sample Identification <i>Back fill</i>		Sample Date 4-22-24	Sample Time 1511	Sample Type (C=Comp, G=grab) C	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) S	Field Filtered Sample (Yes or No) ☒ Yes ☐ No	Form MSD (Yes or No) ☒ Yes ☐ No	8015 and 1802/13 1511/1511		Barcode 890-6524 Chain of Custody	
Special Instructions/Note:		Total Number of containers									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months											
Special Instructions/QC Requirements:											
Empty Kit Relinquished by:											
Relinquished by: <i>Chris Pastore</i> Date: 4-22-24 1609											
Relinquished by: _____ Date: _____											
Relinquished by: _____ Date: _____											
Custody Seal Intact: ☐ Yes ☒ No Custody Seal No.: _____											
Cooler Temperature(s) °C and Other Remarks: <i>16000 - 0.2 16° 158</i>											

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6524-1

Login Number: 6524
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6524-1

Login Number: 6524

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/23/24 08:17 AM

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

Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620
www.arcadis.com

Arcadis. Improving quality of life.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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

QUESTIONS

Action 343749

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 343749
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1627849311
Incident Name	NAB1627849311 SRO SWD #104 @ 30-015-25864
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-25864] SRO SWD #104

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SRO SWD #104
Date Release Discovered	10/02/2016
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 20 BBL Recovered: 8 BBL Lost: 12 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

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

QUESTIONS, Page 2

Action 343749

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	343749
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Nature and Volume of Release (continued)**

Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Jared Stoffel Title: Scientist Email: jstoffel@trccompanies.com Date: 05/13/2024
--	---

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

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

QUESTIONS, Page 3

Action 343749

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	343749
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	8550
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	75.4
GRO+DRO	(EPA SW-846 Method 8015M)	75.4
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/14/2024
On what date will (or did) the final sampling or liner inspection occur	03/01/2024
On what date will (or was) the remediation complete(d)	03/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	16740
What is the estimated volume (in cubic yards) that will be reclaimed	3792
What is the estimated surface area (in square feet) that will be remediated	16740
What is the estimated volume (in cubic yards) that will be remediated	3792

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

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

QUESTIONS, Page 4

Action 343749

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	343749
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Jared Stoffel Title: Scientist Email: jstoffel@trccompanies.com Date: 05/13/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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

QUESTIONS, Page 5

Action 343749

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 343749
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

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

QUESTIONS, Page 6

Action 343749

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	343749
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	328781
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/14/2024
What was the (estimated) number of samples that were to be gathered	69
What was the sampling surface area in square feet	24300

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	24300
What was the total volume (cubic yards) remediated	5700
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	24300
What was the total volume (in cubic yards) reclaimed	5700
Summarize any additional remediation activities not included by answers (above)	Over-excavated areas where sidewall chloride field screens were above the reclamation standards to ensure full remediation to NMAC reclamation standards.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Jared Stoffel Title: Scientist Email: jstoffel@trccompanies.com Date: 05/13/2024
--	---

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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

QUESTIONS, Page 7

Action 343749

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 343749
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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 343749

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 343749
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation approved.	5/31/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	5/31/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/31/2024