Chris Brand
Environmental Remediation/ Facility Decom Advisor

VIA ELECTRONIC MAIL

October 23, 2024

New Mexico Oil Conservation Division
District I
1625 N. French Drive
Hobbs, New Mexico 88240

Re: West Lovington Unit #041
Soil Remediation and Reclamation Summary and Closure Request Report
Incident No. nGRL1006731469
Case No. 1RP-2446

Dear Whom it May Concern:

Please find enclosed for your files, copies of the following:
West Lovington Unit #041 Soil Remediation and Reclamation Summary and Closure Request Report

The Report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC) for Chevron Midcontinent L.P.

Please do not hesitate to call Scott Foord with Arcadis at 713.953.4853, or myself at 661.401.0359, should you have any questions.

Sincerely,

Chris Brand

Encl. Soil Remediation and Reclamation Summary and Closure Request Report
West Lovington Unit #041

cc. Scott Foord – Arcadis
Morgan Jordan – Arcadis

Chris Brand
Environmental Remediation/ Facility Decom Advisor
6301 Deauville Blvd, Midland, TX 79706
Mobile 661 401 0359
chrisbrand@chevron.com

ARCADIS

Chevron Environmental Management Company

2024 Soil Remediation and Reclamation Summary and Closure Request Report

West Lovington Unit #041

Incident # nGRL1006731469

Lea County, New Mexico

October 2024

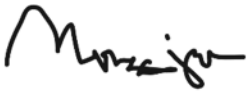
2024 Soil Remediation and Reclamation Summary and Closure Request Report

West Lovington Unit #041
Incident # nGRL1006731469
Lea County, New Mexico

October 2024

Prepared By:
Arcadis U.S., Inc.
1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800

Prepared For:
Chris Brand
Project Manager
CEMC
6301 Deauville Blvd.
Midland, TX 79706



Morgan Jordan
Project Manager



Scott Foord, PG
Program Manager

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1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Remediation and Reclamation Summary and Closure Request Report for Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A. Inc., through its division Chevron North America Exploration and Production Company, for the release site known as the West Lovington Unit #041 (Site) located at coordinates: 32.854805, -103.392172.

2 Project Summary

The Site is located on privately owned land approximately 6-miles southwest of the City of Lovington in Unit B, Section 7, Township 17 South, Range 36 East, Lea County, New Mexico. The site is located within a low karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

According to the Initial C-141 Form, on March 27, 2009, an injection line leaked below the ground surface (bgs) releasing approximately 20 barrels (bbls) of produced water. The Initial C-141 Form stated water pooled on the surface and that a vacuum truck recovered approximately 14 bbls of produced water. The Initial C-141 Form for this release was submitted to the New Mexico Oil Conservation Division (NMOCD) on April 2, 2009, and approved by NMOCD on March 8, 2010. The release was assigned remediation permit number 1RP-2446 and incident number nGRL1006731469.

3 Soil Assessment Activities

In January 2021, and subsequently in March 2023 and January 2024, Arcadis performed soil assessment activities to evaluate soil impacts stemming from the release. A total of twenty-four (24) sample points (SB-1 through SB-24) were advanced to depths ranging from the surface to 6 feet bgs inside and surrounding the release area to evaluate the horizontal and vertical extents of the release. Horizontal and vertical delineation was assessed in each cardinal direction to determine the potential area of concern. Arcadis used this data and field screening to guide proposed remediation activities prior to collecting any confirmation samples.

On July 24, 2024, Chevron submitted the Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD), and on July 29, 2024, the NMOCD approved the Work Plan. The approved Work Plan is included as **Appendix A**.

4 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, USGS well 325108103233801 located approximately 0.29 miles northwest of the Site was identified and gauged with a water level meter by Arcadis on May 2, 2024. The well was verified as dry at 52.14 feet below ground surface (bgs). As such, assessment activities completed to date and remediation/reclamation activities at the Site have been evaluated assuming a Site with a depth to groundwater as greater than 50 feet bgs for soils at depths greater than 4 feet bgs. Site characterization data is included in the approved Work Plan in **Appendix A**.

5 NMAC Regulatory Criteria

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for reclamation activities within the first 4 feet of soil:

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

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for remediation activities for soils at depths greater than 4 feet bgs due to depth to groundwater measured by Arcadis as dry at 52.14 feet bgs within USGS well 325108103233801 located approximately 0.29 miles northwest of the Site:

Constituent	Limit (mg/kg)
Benzene	10 mg/kg
BTEX	50 mg/kg
TPH –GRO, DRO, and ORO	2,500 mg/kg
Chloride	10,000 mg/kg

6 Remediation Activities Summary

6.1 Soil Removal

Soil remediation activities were performed from September 12 through October 3, 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 horizontal and vertical extent of soil impacted by the release. Horizontal 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 22,450 square foot (sq ft) area. Excavation activities were conducted to a maximum depth of approximately 4 feet bgs. Approximately 3,325 cubic yards of impacted soil was excavated from the release area. The limits of the excavation are presented in **Figure 3** and **Figure 4**. 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 Sundance Landfill facility located at 42 Sundance Lane, Eunice, New Mexico as Class 2 non-hazardous material. Copies of disposal manifests can be provided upon request.

6.2 Excavation Confirmation Sampling Activities

Arcadis, personnel conducted excavation confirmation soil sampling activities from September 13 through September 20, 2024 for laboratory analyses. Following excavation of the impacted area, 5-point composite confirmation soil samples were collected from the excavation area as needed to maintain an approximate 200 square foot sample spacing or less in accordance with NMAC 19.15.29.12 D(1)(b). The excavation sidewall confirmation sample locations are depicted in **Figure 3** and excavation base confirmation samples are depicted in **Figure 4**.

Additionally, per NMAC 19.15.29.11 A(5)(c), vertical delineation was demonstrated at previous soil boring location (SB-2) during excavation sampling activities. Results are included in **Table 1** and the previous assessment results and location of SB-2 are included in the approved Work Plan in **Appendix A**.

The confirmation 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 sample was analyzed for modified BTEX by EPA Method 8021B, TPH by United States Environmental Protection Agency (EPA) Method 8015, and chloride by EPA method 300. Soil sample analytical results are summarized in **Table 1**. The laboratory analytical report is included in **Appendix B.**

6.2.1 BTEX

BTEX concentrations were reported below the NMOCD reclamation and remediation standards.

6.2.2 TPH

TPH concentrations were reported below the NMOCD reclamation and remediation standards for GRO, DRO, and ORO.

6.2.3 Chloride

Chloride concentrations were reported below the NMOCD reclamation and remediation standards.

7 Restoration, Reclamation, and Re-Vegetation Activities

Prior to backfill a 5-point composite sample was collected from the backfill material to confirm all constituents were below the NMOCD reclamation standards for BTEX, TPH, and chloride and the analytical results are included in **Table 1** and **Appendix B**. Upon receiving laboratory analytical confirming impacted soil over the applicable restoration limits had been removed from the impacted area, the excavated area was backfilled with locally sourced, non-impacted "like" material and it is suitable material to establish vegetation growth.

Approximately 22,450 square feet of the area of concern was restored to its original condition. The area was contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

The area has not been re-seeded at this time. The area will be re-seeded during the next applicable growing season. A separate revegetation report will be submitted to the NMOCD once revegetation activities have been completed.

Photographic documentation of the remediation and reclamation activities are included in **Appendix C.**

8 Summary

Analytical results associated with the remediation activities conducted in 2024 indicate that the horizontal and vertical extent of BTEX, TPH, and chloride impact in soil above NMAC screening standards have been remediated and excavated from the impacted area. The area was backfilled with clean/ suitable material to establish vegetation growth, graded to match the original surface conditions and drainage, and restored to its original condition.

9 Remediation Closure and Reclamation Approval Request

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

Arcadis requests remediation closure and reclamation approval be granted to the West Lovington Unit #041 for Incident # nGRL1006731469.

A separate revegetation report will be submitted to the NMOCD once revegetation activities have been completed.

Tables

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Table 1
Soil Analytical Results
Chevron Environmental Management Company
WLU 41

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Sample I.D.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standard			10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements			10	--	--	--	50	--	--	--	--	100	600
SW-1	2	9/17/2024	<0.00140	0.00209	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	33.9
SW-2	2	9/17/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.7	<15.3	<15.3	<15.3	<15.3	22.9
SW-3	2	9/14/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	68.7
SW-4	2	9/13/2024	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	147
SW-5	2	9/13/2024	<0.00139	0.00217	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	401
SW-6	2	9/16/2024	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	<15.1	20.0
SW-7	2	9/14/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	77.0
	2	9/19/2024	<0.00140	<0.00201 F1	<0.00109 F1	<0.00229 F1	<0.00229	<14.4	17.3 J B	17.3 J B	<15.0	17.3 J	45.8
SW-8	2	9/19/2024	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	219
SW-9	2	9/19/2024	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	268
SW-10	2	9/19/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	48.2
SW-11	2	9/19/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	289
SW-12	2	9/19/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	271
SW-13	2	9/19/2024	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.6	<15.2	<15.2	<15.2	<15.2	253
SW-14	2	9/19/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	128
B-1	2.5	9/17/2024	<0.00139	0.00341	<0.00108	<0.00228	0.00341 J	<14.4	<15.0	<15.0	<15.0	<15.0	67.3
B-2	2.5	9/13/2024	<0.00138 F1	<0.00198 F1 F2	<0.00108 F1 F2	<0.00226 F1 F2	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	335 F1
B-3	2.5	9/17/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	231.0
B-4	2.5	9/17/2024	<0.00139	0.00392	<0.00109	<0.00228	0.00392 J	<14.5	<15.1	<15.1	<15.1	<15.1	34.0
B-5	2.5	9/17/2024	<0.00139	0.00488	<0.00108	<0.00228	0.00488	<14.5	<15.1	<15.1	<15.1	<15.1	119
B-6	2.5	9/13/2024	<0.00140	0.00216	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	244
B-7	4	9/18/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.4	<15.0	<15.0	<15.0	<15.0	936
B-8	4	9/13/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.4	<15.0	<15.0	<15.0	<15.0	605
B-9	4	9/13/2024	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	368
B-10	4	9/13/2024	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	<15.1	751
B-11	2.5	9/17/2024	<0.00138	0.00295	<0.00108	<0.00226	0.00295 J	<14.4	<15.0	<15.0	<15.0	<15.0	105
B-12	2.5	9/17/2024	<0.00139	0.00704	<0.00109	<0.00228	0.00704	<14.5	<15.1	<15.1	<15.1	<15.1	163
B-13	4	9/18/2024	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.7	<15.3	<15.3	<15.3	<15.3	190
B-14	4	9/18/2024	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	506
B-15	4	9/18/2024	<0.00139	0.00223	<0.00109	<0.00228	<0.00228	<14.6	<15.2	<15.2	<15.2	<15.2	340
B-16	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	<15.2	<15.2	<15.2	<15.2	680
B-17	4	9/18/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.6	<15.3	<15.3	<15.3	<15.3	849 F1
B-18	4	9/18/2024	<0.00138	0.00313	<0.00108	<0.00227	0.00313 J	<14.7	<15.3	<15.3	<15.3	<15.3	1,070
B-19	4	9/18/2024	<0.00139	0.00338	<0.00109	<0.00228	0.00338 J	<14.4	<15.0	<15.0	<15.0	<15.0	2,650
B-20	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	1,040
B-21	4	9/18/2024	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	475
B-22	4	9/18/2024	<0.00139	0.00286	<0.00109	<0.00229	0.00286 J	<14.5	<15.1	<15.1	<15.1	<15.1	810
B-23	4	9/18/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	426
B-24	4	9/18/2024	<0.00139	0.00203	<0.00109	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	795
B-25	4	9/18/2024	<0.00139	0.00221	<0.00109	<0.00229	<0.00229	<14.6	<15.2	<15.2	<15.2	<15.2	679
B-26	4	9/18/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.6	<15.3	<15.3	<15.3	<15.3	920 F1
B-27	4	9/18/2024	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.7	<15.3	<15.3	<15.3	<15.3	996
B-28	4	9/18/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.6	<15.2	<15.2	<15.2	<15.2	1,170
B-29	4	9/18/2024	<0.00139	0.00272	<0.00109	<0.00228	0.00272 J	<14.6	<15.2	<15.2	<15.2	<15.2	1,530
B-30	4	9/18/2024	<0.00140	0.00277	<0.00110	<0.00230	0.00277 J	<14.7	<15.3	<15.3	<15.3	<15.3	1,710
B-31	4	9/18/2024	<0.00141	0.00220	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	<15.1	1,190
B-32	4	9/18/2024	<0.00140	<0.00201	<0.00109 F1	<0.00229 F1	<0.00229	<14.6 F1	<15.2	<15.2	<15.2	<15.2	782
B-33	4	9/18/2024	<0.00138	0.00349	<0.00108	<0.00226	0.00349 J	<14.5	<15.1	<15.1	<15.1	<15.1	1,120
B-34	4	9/18/2024	<0.00139	0.00272	<0.00109	<0.00228	0.00272 J	<14.6	<15.2	<15.2	<15.2	<15.2	836
B-35	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	19.4 J	19.4 J	<15.2	19.4 J	1,070
B-36	4	9/18/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.6	<15.3	<15.3	<15.3	<15.3	2,090 F1
B-37	4	9/18/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.7	<15.3	<15.3	<15.3	<15.3	2,110
B-38	4	9/18/2024	<0.00139	0.00269	<0.00109	<0.00228	0.00269 J	<14.4	<15.0	<15.0	<15.0	<15.0	1,030
B-39	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	506

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Table 1
Soil Analytical Results
Chevron Environmental Management Company
WLU 41

ARCADIS

Sample I.D.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standard			10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements			10	--	--	--	50	--	--	--	--	100	600
B-40	4	9/18/2024	<0.00140	0.00287	<0.00110	<0.00230	0.00287 J	<14.5	<15.1	<15.1	<15.1	<15.1	1,340
B-41	4	9/18/2024	<0.00139	0.00208	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	857
B-42	4	9/18/2024	<0.00139	0.00328	<0.00108	<0.00228	0.00328 J	<14.4	<15.0	<15.0	<15.0	<15.0	1,340
B-43	4	9/18/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.6	<15.2	<15.2	<15.2	<15.2	768
B-44	4	9/18/2024	<0.00139	0.00249	<0.00109	<0.00228	0.00249 J	<14.6	<15.2	<15.2	<15.2	<15.2	1,110
B-45	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	<15.3	<15.3	<15.3	<15.3	2,200
B-46	4	9/18/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	17.9 J	17.9 J	<15.1	17.9 J	2,350 F1
B-47	4	9/18/2024	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.7	<15.3	<15.3	<15.3	<15.3	2,080
B-48	4	9/18/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	1,580
B-49	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	2,420
B-50	4	9/18/2024	<0.00140	0.00292	<0.00110	<0.00230	0.00292 J	<14.5	<15.1	<15.1	<15.1	<15.1	1,520
B-51	4	9/18/2024	<0.00141	0.00277	<0.00110	<0.00231	0.00277 J	<14.5	<15.1	<15.1	<15.1	<15.1	1,040
B-52	4	9/18/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.6	<15.2	<15.2	<15.2	<15.2	1,050
B-53	4	9/18/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.6	41.7 J	41.7 J	<15.2	41.7 J	1,410
B-54	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.6	<15.2	<15.2	<15.2	<15.2	1,350
B-55	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	<15.2	<15.2	<15.2	<15.2	863
B-56	4	9/18/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	841
B-57	4	9/18/2024	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.4	<15.0	<15.0	<15.0	<15.0	763
B-58	4	9/18/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.4	<15.0	<15.0	<15.0	<15.0	834
B-59	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	1,100
B-60	4	9/18/2024	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	61.3	61.3	<15.1	61.3	1,570
B-61	4	9/18/2024	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.6	<15.2	<15.2	<15.2	<15.2	1,630
B-62	4	9/18/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	<15.2	<15.2	<15.2	<15.2	903
B-63	4	9/20/2024	<0.00139	0.00421	<0.00109	<0.00229	0.00421	34.5 J	56.7 *-	91.2 J *-	37.3 J	129	138
B-64	4	9/20/2024	<0.00139	0.00329	<0.00108	<0.00228	0.00329 J	32.8 J	87.3 *-	120.1 J *-	56.2	176	822
B-65	4	9/20/2024	<0.00139	0.00276	<0.00109	<0.00228	0.00276 J	33.2 J	89.5 *-	122.7 J *-	57.6	180	424
B-66	4	9/20/2024	<0.00140	0.00418	<0.00110	<0.00230	0.00418	32.0 J	70.7 *-	102.7 J *-	45.0 J	148	202
B-67	4	9/20/2024	<0.00140	0.00252	<0.00109	<0.00229	0.00252 J	32.5 J	75.8 *-	108.3 J *-	50.5	159	92.6
B-68	4	9/20/2024	<0.00139	0.00390	<0.00108	<0.00228	0.00390 J	33.1 J	52.0 *-	85.1 J *-	32.2 J	117	74.9
B-69	4	9/20/2024	<0.00139	0.00372	<0.00109	<0.00228	0.00372 J	32.6 J	47.7 J *-	80.3 J *-	30.7 J	111	685
B-70	4	9/20/2024	<0.00140	0.00719	<0.00110	<0.00230	0.00719	32.2 J	60.5 *-	92.7 J *-	38.4 J	131	80.5
B-71	4	9/20/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	30.9 J	41.0 J *-	71.9 J *-	26.9 J	98.8	118
B-72	1	9/19/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	<15.2	<15.2	<15.2	<15.2	185
B-73	1	9/19/2024	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.6	<15.3	<15.3	<15.3	<15.3	123
B-74	4	9/20/2024	<0.00139	0.00290	<0.00109	<0.00229	0.00290 J	30.5 J	40.2 J *-	70.7 J *-	25.6 J	96.3	585
B-75	4	9/20/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	30.5 J	41.5 J *-	72 J *-	26.8 J	98.8	478 F1
B-76	4	9/20/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	29.7 J	42.2 J *-	71.9 J *-	27.0 J	98.9	665
B-77	4	9/20/2024	<0.00138	0.00459	<0.00108	<0.00227	0.00459	39.2 J	57.6 *-	96.8 J *-	34.0 J	131	216
B-78	4	9/20/2024	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	29.8 J	42.2 J *-	72 J *-	26.3 J	98.3	701
B-79	4	9/20/2024	<0.00139	0.00343	<0.00109	<0.00229	0.00343 J	40.9 J	67.2	108.1 J	<15.1	108	638
B-80	4	9/20/2024	<0.00139	0.00287	<0.00109	<0.00229	0.00287 J	27.8 J	56.2	84 J	<15.1	84.0	318
B-81	4	9/20/2024	<0.00139	0.00214	<0.00108	<0.00228	<0.00228	41.5 J	56.2	97.7 J	<15.1	97.7	252
B-82	4	9/20/2024	<0.00139	0.00219	<0.00109	<0.00228	<0.00228	37.0 J	54.2	91.2 J	<15.1	91.2	405
B-83	4	9/20/2024	<0.00139	0.00539	<0.00109	<0.00229	0.00539	33.4 J	84.6	118 J	<15.0	118	1,480
B-84	4	9/20/2024	<0.00140	0.00338	<0.00110	<0.00230	0.00338 J	37.4 J	68.7	106.1 J	<15.1	106	237
B-85	4	9/20/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	29.3 J	49.0 J	78.3 J	<15.1	78.3	73.4
B-86	4	9/20/2024	<0.00139	0.00315	<0.00108	<0.00228	0.00315 J	44.4 J	76.2	120.6 J	<15.0	121	155
B-87	4	9/20/2024	<0.00139	0.00587	<0.00109	<0.00228	0.00587	41.3 J	95.4	136.7 J	<15.0	137	397
B-88	4	9/20/2024	<0.00140	0.00790	<0.00110	<0.00230	0.00790	32.5 J	139	171.5 J	<15.1	172	323
B-89	4	9/20/2024	<0.00140	0.00914	<0.00109	<0.00229	0.00914	48.4 J	225	273.4 J	<15.1	273	12.1
B-90	4	9/20/2024	<0.00139	0.00548	<0.00108	<0.00228	0.00548	31.7 J	232	263.7 J	<15.1	264	111
B-91	4	9/20/2024	<0.00139	0.00901	<0.00109	<0.00228	0.00901	32.2 J	303	335.2 J	<15.1	335	15.6
B-92	4	9/20/2024	<0.00140	0.00471	<0.00110	<0.00230	0.00471	30.7 J	221	251.7 J	<15.1	252	14.3
B-93	4	9/20/2024	<0.00139	0.00351	<0.00108	<0.00228	0.00351 J	22.9 J	217	239.9 J	<15.0	240	16.3

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Received by OCD: 10/23/2024 1:19:31 PM

Table 1
Soil Analytical Results
Chevron Environmental Management Company
WLU 41

ARCADIS

Sample I.D.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standard			10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements			10	--	--	--	50	--	--	--	--	100	600
B-94	4	9/20/2024	<0.00139	0.00642	<0.00109	<0.00229	0.00642	32.9 J	197	229.9 J	<15.0	230	49.4
B-95	4	9/20/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	18.8 J	159	177.8 J	<15.1	178	178
B-96	4	9/20/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	30.4 J	53	83.4 J	<15.1	83.4	444
B-97	4	9/20/2024	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	42.3 J	135	177.3 J	<15.1	177	448
B-98	4	9/20/2024	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	47.0 J	82.9	129.9 J	<15.1	130	***885***
B-99	4	9/20/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	24.9 J	111	135.9 J	<15.1	136	490
B-100	4	9/20/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	26.6 J	226	252.6 J	<15.1	253	245
B-101	4	9/20/2024	<0.00139	0.00285	<0.00108	<0.00228	0.00285 J	45.1 J	106	151.1 J	<15.1	151	197
B-102	4	9/20/2024	<0.00139	0.0047	<0.00109	<0.00228	0.0047	35.6 J	94.3	129.9 J	<15.0	130	178
B-103	4	9/20/2024	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	47.5 J	92.6	140.1 J	<15.1	140	637
B-104	4	9/20/2024	<0.00140	0.00258	<0.00110	<0.00230	0.00258 J	28.9 J	137	165.9 J	<15.1	166	93.5
B-105	4	9/20/2024	<0.00139	0.00860 F1	<0.00109 F1	<0.00229 F1	0.0086	36.5 J	236	272.5 J	<15.1	273	8.57
B-106	4	9/20/2024	<0.00139	0.00559	<0.00108	<0.00228	0.00559	39.1 J	301	340.1 J	<15.0	340	7.16
B-107	4	9/20/2024	<0.00139	0.00485	<0.00109	<0.00228	0.00485	39.9 J	292	331.9 J	<15.0	332	7.00
B-108	4	9/20/2024	<0.00140	0.00477	<0.00110	<0.00230	0.00477	22.4 J	129	151.4 J	<15.1	151	96.6
B-109	4	9/20/2024	<0.00140	0.00459	<0.00109	<0.00229	0.00459	37.7 J	85.8	123.5 J	<15.1	124	265
B-110	4	9/20/2024	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	47.8 J	76.6	124.4 J	<15.1	124	485
B-111	4	9/20/2024	<0.00139	0.00295	<0.00109	<0.00228	0.00295 J	26.1 J	74.6	100.7 J	<15.1	101	394
B-112	4	9/20/2024	<0.00140	0.00403	<0.00110	<0.00230	0.00403	48.0 J	73.4	121.4 J	<15.1	121	1,340
B-113	4	9/20/2024	<0.00139	0.00400	<0.00108	<0.00228	0.00400	27.6 J	90.4	118 J	<15.1	118	792
B-114	4	9/20/2024	<0.00139	0.00805	<0.00109	<0.00229	0.00805	41.8 J	131	172.8 J	<15.1	173	151
SB-2	8	9/13/2024	<0.00139	0.00232	<0.00109	<0.00229	0.00232 J	<14.5	<15.1	<15.1	<15.1	<15.1	296
Backfill	---	8/12/2024	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	80.7

Legend:
BOLD : Analytes exceeding NMAC standards / Restoration Requirement
J: Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value
B: Compound was found in the blank and sample.
F1: MS and/or MSD recovery exceeds control limits
F2: MS/MSD RPD exceeds control limits
*-: LCS and/or LCSD is outside acceptance limits, low biased.
<: Indicates the analyte was not detected at or above MDL
mg/kg: Milligram per Kilogram
BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes
NMAC : New Mexico Administration Code. Criteria based off of groundwater depth of less than 50 feet.
TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics
TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics
TPH MRO: Total Petroluem Hydrocarbons Motor Oil Range Organics
Total TPH: GRO + DRO + MRO
*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018
Notes:
1. Chloride analyzed by United States Environmental Protection Agency Method 300
2. TPH analyzed by TPH by SW8015 Mod DRO/ORO Method
3. BTEX analyzed by USEPA Method 8021B
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures



Legend

Site Location

Credits: ESRI Online, Google Earth

0 2,000 4,000 Feet

GRAPHIC SCALE

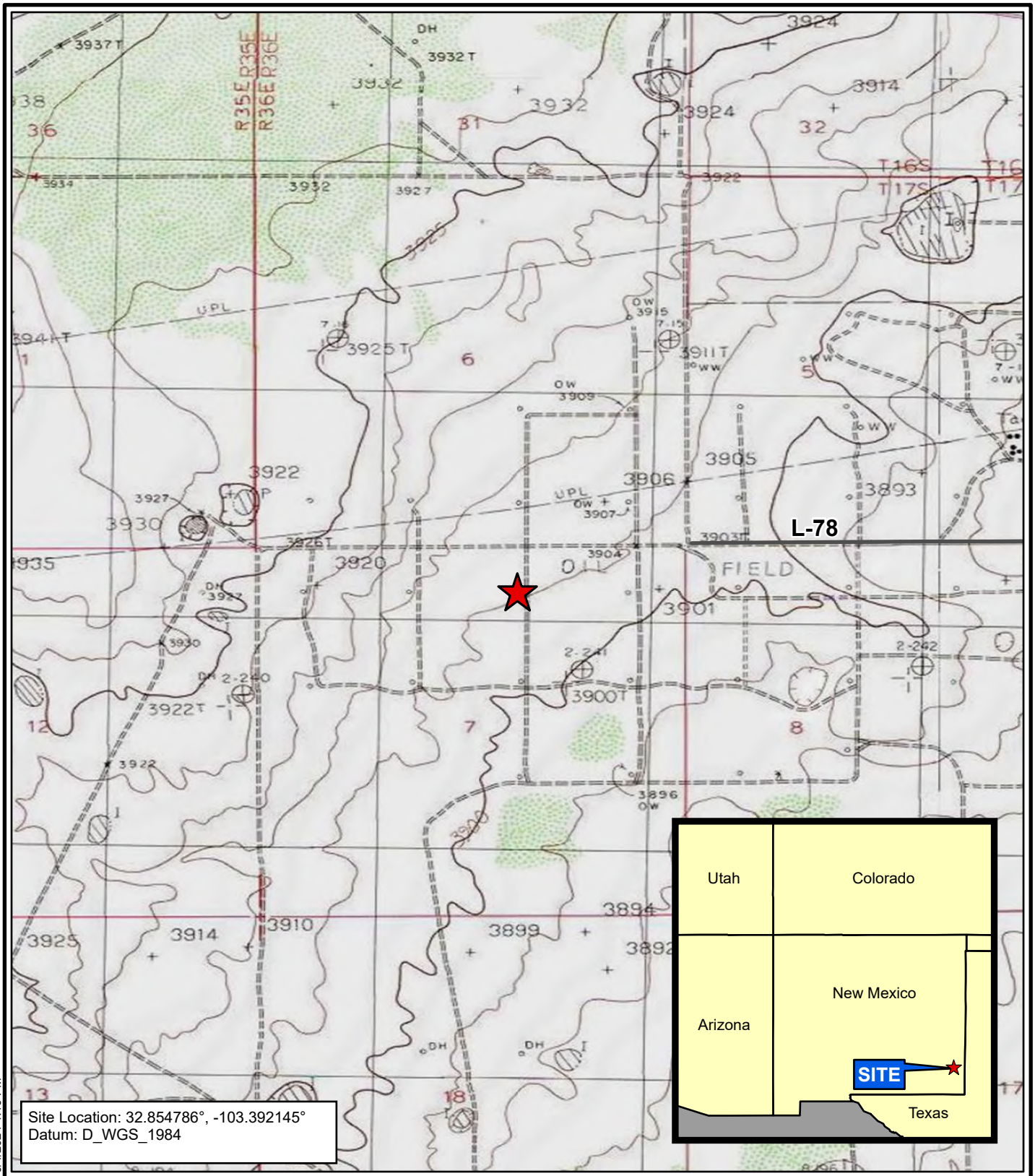
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #041
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: vmn1306 ; Client (Project #)
T:_ENV\Upstream\WLU 41\Pro\WLU 41.aprx 6/4/2024 9:36 AM



Legend

Site Location

Credits: ESRI Online, USGS 24,000 K Topo (Map Service)
Red Lake, New Mexico Quadrangle

0 2,000 4,000 Feet

GRAPHIC SCALE

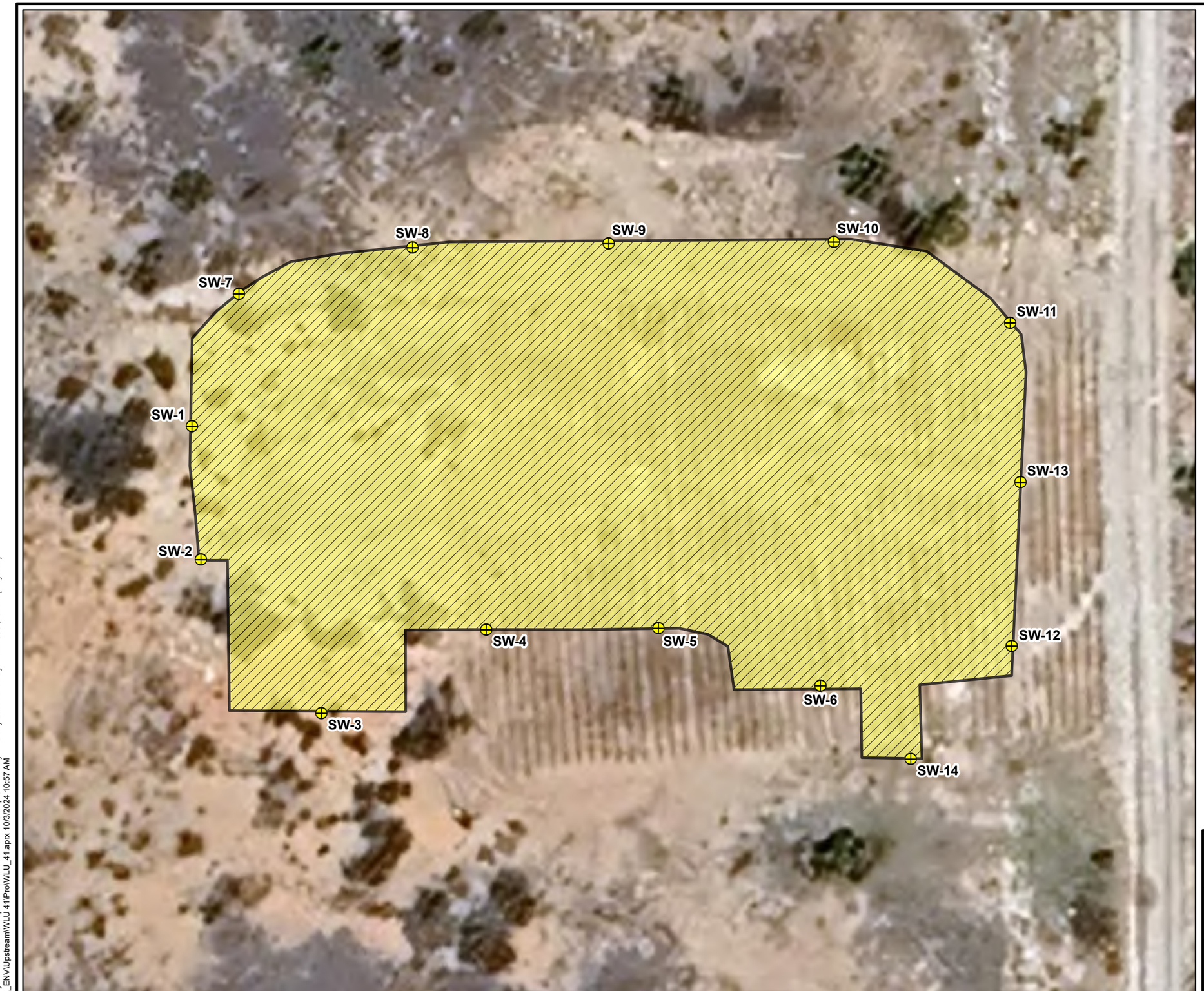
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #041
LEA COUNTY, NEW MEXICO

TOPOGRAPHIC MAP

ARCADIS

FIGURE 2

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: vmn1306 ; Client (Project #)
T:_ENV\Upstream\WLU 41\Pro\WLU_41.aprx 6/4/2024 1:49 PM



LEGEND:

- Sidewall Soil Sample Location
- Excavated Area

0 25 50 Feet

GRAPHIC SCALE

Datum: D_WGS_1984
Source: ESRI Online, Google Earth
Site Location: 32.854786°, -103.392145°

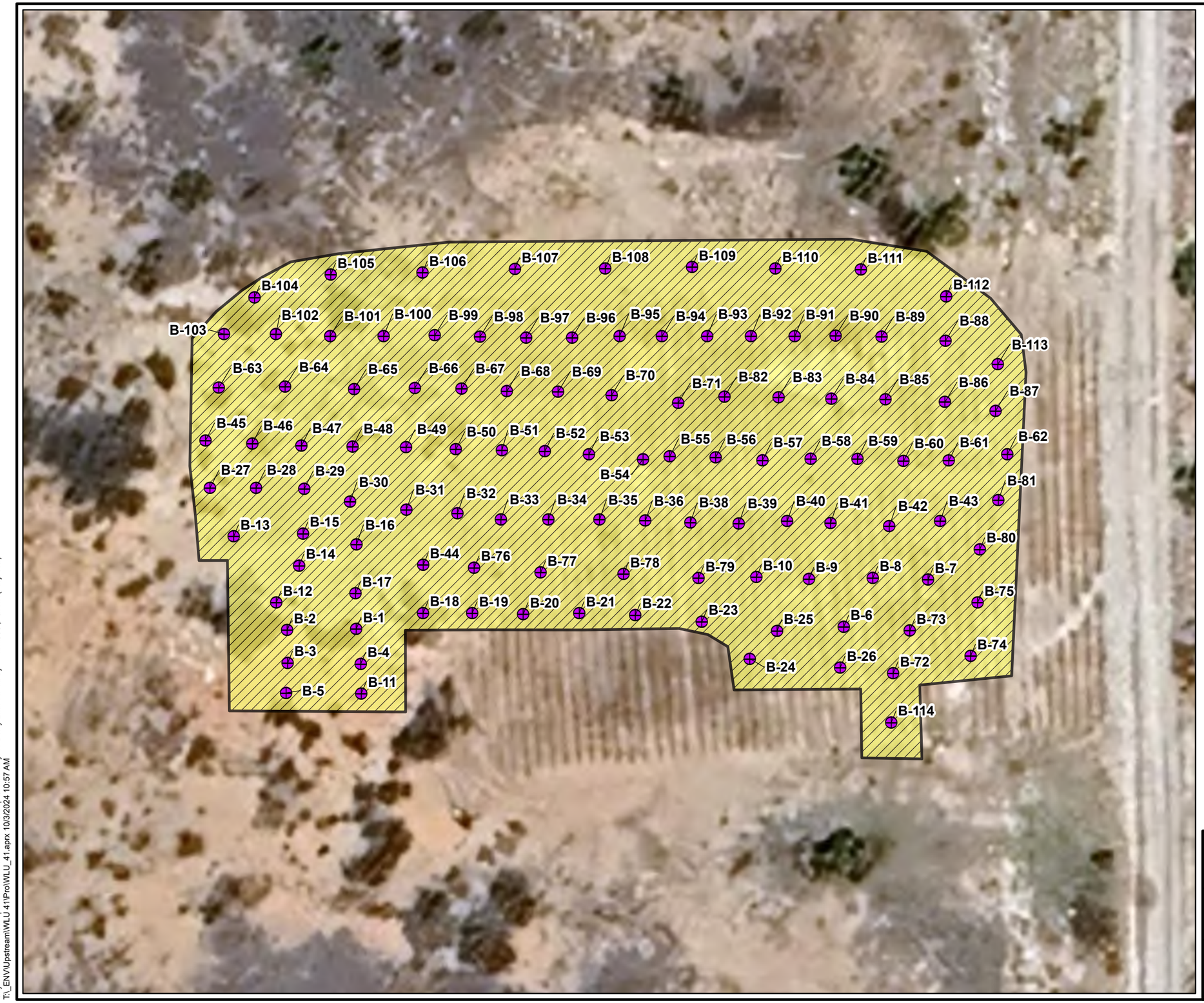
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #041
LEA COUNTY, NEW MEXICO

EXCAVATION SIDEWALL SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 3

City:Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: vmn1306 : Client (Project #) T:_ENV\Upstream\WLU 41\Pro\WLU_41.aprx 10/3/2024 10:57 AM



LEGEND:

- Base Soil Sample Location
- Excavated Area

0 25 50 Feet

GRAPHIC SCALE

Datum: D_WGS_1984
Source: ESRI Online, Google Earth
Site Location: 32.854786°, -103.392145°

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #041
LEA COUNTY, NEW MEXICO

EXCAVATION BASE SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 4

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: vmn1306 ; Client (Project #)
T:_ENV\Upstream\WLU 41\Pro\WLU_41.aprx 10/3/2024 10:57 AM

Appendix A

Work Plan

Chris Brand
Environmental Remediation/ Facility Decom Advisor

VIA ELECTRONIC MAIL

July 23, 2024

New Mexico Oil Conservation Division
District I
1625 N. French Drive
Hobbs, New Mexico 88240

Re: West Lovington Unit #041
Soil Remediation Work Plan
Incident No. nGRL1006731469
Case No. 1RP-2446

Dear Whom it May Concern:

Please find enclosed for your files, copies of the following:
West Lovington Unit #041 Soil Remediation Work Plan

The Work Plan was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC) for Chevron USA.

Please do not hesitate to call Scott Foord with Arcadis at 713.953.4853, or myself at 661.401.0359, should you have any questions.

Sincerely,

Chris Brand

Encl. West Lovington Unit #041 Work Plan

cc. Scott Foord – Arcadis
Morgan Jordan – Arcadis

Chris Brand
Environmental Remediation/ Facility Decom Advisor
6301 Deauville Blvd, Midland, TX 79706
Mobile 661 401 0359
chrisbrand@chevron.com

Chevron Environmental Management Company

2024 Work Plan

West Lovington Unit #041

Lea County, New Mexico

Incident # nGRL1006731469

July 2024

2024 Work Plan

West Lovington Unit #041
Incident # nGRL1006731469
Lea County, New Mexico

July 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:
Chris Brand
Project Manager
CEMC
6301 Deauville Blvd.
Midland, TX 79706



Scott Foord, PG
Program Manager

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1 Introduction 1
2 Project Summary 1
2.1 Incident # nGRL1006731469 1
3 Site Characterization 1
4 NMAC Regulatory Criteria 2
5 Site Assessment Activities 2
6 Proposed Work Plan 3
7 Work Plan Approval Request 4

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Figure 1. Site Location Map
Figure 2. Topographic Map
Figure 3. Proposed Excavation and Sample Location Map

Appendices

Appendix A. Initial C-141 Form Incident # nGRL1006731469
Appendix B. Photo Log
Appendix C. Boring Logs
Appendix D. Site Characterization Data
Appendix E. Laboratory Analytical Reports
Appendix F. NMOCD Correspondence

2024 Work Plan
West Lovington Unit #041

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Work Plan, for Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A. Inc., through its division Chevron North America Exploration and Production Company, for the release site known as the West Lovington Unit #041 (Site) located at 32.854805, -103.392172. 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 privately owned land approximately 6-miles southwest of the City of Lovington in Unit B, Section 7, Township 17 South, Range 36 East, Lea County, New Mexico. The site is located within a low karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # nGRL1006731469

According to the Initial C-141 Form, on March 27, 2009, an injection line leaked below ground releasing approximately 20 barrels (bbls) of produced water. The Initial C-141 Form stated water pooled on the surface and that a vacuum truck recovered approximately 14 bbls of produced water. The Initial C-141 Form for this release was submitted to the New Mexico Oil Conservation Division (NMOCD) on April 2, 2009, and approved by NMOCD on March 8, 2010. The release was assigned remediation permit number 1RP-2446 and incident number nGRL1006731469. The Initial C-141 Form for this release is included as **Appendix A**.

3 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, USGS well 325108103233801 located approximately 0.29 miles northwest of the Site was identified and gauged with a water level meter by Arcadis on May 2, 2024. The well was verified as dry at 52.14 feet below ground surface (bgs). Photographic documentation of gauging activities by Arcadis are included in **Appendix B.**

The following site characteristics were determined in accordance with 19.15.29 New Mexico Administrative Code (NMAC):

- Shallowest depth to groundwater beneath the area affected by the release in ft bgs: Between 51 and 75 feet;
- Method used to determine the depth to groundwater: direct measurement;
- Distance to continuously flowing watercourse or any other significant watercourse: >5 miles;
- Distance to lakebed, sinkhole, or playa lake: Between 0.50 and 1 mile;
- Distance to occupied permanent residence, school, hospital, institution, or church: Between 1 and 5 miles;
- Distance to spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes: Between 0.50 and 1 mile;
- Distance to other fresh water well or spring: Between 0.50 and 1 mile;

- Distance to incorporated municipal boundaries or a defined municipal fresh water well field: Between 1 and 5 miles;
- Distance to wetland: Between 1,000 feet and 0.5 mile;
- Distance to subsurface mine: >5 miles;
- Distance to (non-karst) unstable area: >5 miles;
- Categorize the risk of this well/site being in a karst geology: Low;
- Distance to a 100-year floodplain: >5 miles; and
- Did the release impact areas not on an exploration, development, production, or storage site? No

Site characteristic data is included in **Appendix D**.

4 NMAC Regulatory Criteria

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for reclamation activities within the first 4 feet of soil:

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

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for remediation activities for soils at depths greater than 4 feet bgs due to depth to groundwater measured by Arcadis as dry at 52.14 feet bgs within USGS well 325108103233801 located approximately 0.29 miles northwest of the Site:

Constituent	Limit (mg/kg)
Benzene	10 mg/kg
BTEX	50 mg/kg
TPH –GRO, DRO, and ORO	2,500 mg/kg
Chloride	10,000 mg/kg

5 Site Assessment Activities

In January 2021, and subsequently in March 2023 and January 2024, Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of twenty-four (24) sample points (SB-1

through SB-24) were advanced to depths ranging from the surface to 6 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**. A photo log is included in **Appendix B**. Boring logs are included in **Appendix C**. 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. Soil samples analyzed for BTEX were reported with concentrations ranging from 0.00101 mg/kg (S-15) to 0.0253 mg/kg (S-23). Soil samples analyzed for TPH were reported with concentrations ranging from 16.4 J mg/kg (S-6) to 236 mg/kg (S-4). Soil samples analyzed for chloride were reported with concentrations ranging from 3.39 J mg/kg (S-18) to 6,150 mg/kg (S-2).

Horizontal and vertical delineation of the area of concern was completed during assessment activities. Analytical data collected to date and field screening during proposed remediation activities will be utilized to guide remediation activities. Soil sample analytical results from assessment activities 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 E.** NMOCD correspondence is shown in **Appendix F.**

6 Proposed Work Plan

Based on the analytical data and the detected TPH and chloride concentrations in soil samples collected during site assessment activities, CEMC proposes to remediate the areas of concern via excavation illustrated in orange as shown in **Figure 3** and bolded in **Table 1**.

The proposed excavation area encompasses a surface area of approximately 27,500 square feet. An estimated 4,100 cubic yards of soil will be removed and transported to the R360 CRI Facility, which is listed as an NMOCD approved disposal facility.

In accordance with NMAC 19.15.29.12(D)(1)(b), CEMC proposes the following confirmation sampling plan to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 200 square foot intervals for analysis of BTEX by EPA Method 8260, TPH for GRO, DRO, and ORO by EPA Method 8015, and chloride by EPA Method 300.0. Lateral and vertical limits of the excavation will halt once confirmation sample analytical results are in accordance with NMAC 19.15.29.12(D)(1)(c).

Backfill material will be verified to be non-waste containing prior to backfilling the remediated area by obtaining analytical data from the backfill material supplier (R360) if available, or by collecting a five-point composite sample and analyzing for BTEX by EPA Method 8260, TPH for GRO, DRO, and ORO by EPA Method 8015, and chloride by EPA Method 300.0. Following completion of excavation activities and confirmation that the backfill material is non-waste containing, the areas will be backfilled with the clean material and graded to match the original surface conditions and drainage. Approximately 27,500 square feet of the area of concern located within the pasture area will be reclaimed to original condition and re-seeded following remediation activities.

The proposed remediation activities will be implemented within 90 days following approval of this work plan by the NMOCD. The anticipated schedule includes 30 days to prepare and schedule 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 and a separate reclamation report will be submitted to the NMOCD 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 Morgan Jordan at 281-644-9437.

Tables

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Table 1
Soil Analytical Results
Chevron Environmental Management Company
WLU 41

ARCADIS

Sample I.D.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standard (> 4 feet)			10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements < 4 ft)			10	--	--	--	50	--	--	--	--	100	600
SB-1	0-0.5	01/14/21	<0.000385	<0.000456	<0.000565	<0.000344	<0.000344	<15.0	<15.0	<15.0	<15.0	<15.0	***1,090***
	1-2	01/14/21	<0.000386	<0.000457	<0.000566	<0.000345	<0.000345	<15.0	<15.0	<15.0	<15.0	<15.0	***2,140***
	3-3.5	01/14/21	<0.000384	<0.000455	<0.000564	<0.000344	<0.000344	<15.0	<15.0	<15.0	<15.0	<15.0	***1,230***
SB-2	0-0.5	01/14/21	<0.000386	<0.000457	<0.000567	<0.000346	<0.000346	<15.0	38.8 J	38.8 J	<15.0	38.8 J	***6,150***
	1-2	01/14/21	<0.000381	<0.000451	<0.000559	<0.000341	<0.000341	<15.0	59.8	59.8	21.8 J	81.6	***4,220***
	3-3.5	01/14/21	<0.000383	<0.000454	<0.000563	<0.000343	<0.000343	<15.0	30.3 J	30.3 J	<15.0	30.3 J	***3,790***
SB-3	0-0.5	01/14/21	<0.000383	<0.000454	<0.000563	<0.000343	<0.000343	17.9 J	26.9 J	44.8 J	<15.0	44.8 J	***4,610***
	1-2	01/14/21	<0.000385	<0.000456	<0.000565	<0.000344	<0.000344	16.9 J	56	72.9 J	22.2 J	95.1	***1,110***
SB-4	0-0.5	01/14/21	<0.000387	<0.000458	<0.000568	<0.000346	<0.000346	<15.0	27.0 J	27.0 J	15.0 J	42.0 J	18.2
	1-2	01/14/21	<0.000386	<0.000457	<0.000566	<0.000345	<0.000345	16.0 J	139	155 J	80.9	***236***	9.06
DUP	1-2	01/14/21	<0.000389	<0.000460	<0.000570	<0.000348	<0.000348	<15.0	125	125	69.8	***195***	9.97
	3-4	01/14/21	<0.000383	<0.000453	<0.000561	<0.000342	<0.000342	16.8 J	59.1	75.9 J	39.9 J	***116***	19.4
SB-5	0-0.5	01/15/21	<0.000389	<0.000460	<0.000570	<0.000348	<0.000348	<15.0	39.9 J	39.9 J	16.9 J	56.8	***2,710***
SB-6	0-0.5	01/15/21	<0.000383	<0.000453	<0.000561	<0.000342	<0.000342	<15.0	116	116	76.6	***193***	29.6
	1-2	01/15/21	<0.000385	<0.000456	<0.000565	<0.000344	<0.000344	<14.9	<14.9	<14.9	<14.9	<14.9	9.21
	3-4	01/15/21	<0.000384	<0.000455	<0.000564	<0.000344	<0.000344	16.4 J	<15.0	16.4 J	<15.0	16.4 J	36.5
	5-6	01/15/21	<0.000382	<0.000452	<0.000560	<0.000342	<0.000342	<15.0	<15.0	<15.0	<15.0	<15.0	80.6
SB-7	0-0.5	01/15/21	<0.000381	<0.000451	<0.000559	<0.000341	<0.000341	<15.0	20.5 J	20.5 J	<15.0	20.5 J	37
	1-2	01/15/21	<0.000388	<0.000459	<0.000569	<0.000347	<0.000347	<15.0	<15.0	<15.0	<15.0	<15.0	12.9
	3-4	01/15/21	<0.000383	<0.000453	<0.000561	<0.000342	<0.000342	<15.0	<15.0	<15.0	<15.0	<15.0	300
	5-5.5	01/15/21	<0.000384	<0.000455	<0.000564	<0.000344	<0.000344	<14.9	<14.9	<14.9	<14.9	<14.9	*832*
SB-8	0-0.5	01/15/21	<0.000382	<0.000452	<0.000560	<0.000342	<0.000342	<15.0	<15.0	<15.0	<15.0	<15.0	69.4
	1-2	01/15/21	<0.000383	<0.000453	<0.000561	<0.000342	<0.000342	<15.0	<15.0	<15.0	<15.0	<15.0	66.4
	3-4	01/15/21	<0.000381	<0.000451	<0.000559	<0.000341	<0.000341	<15.0	17.1 J	17.1 J	<15.0	17.1 J	374
SB-9	0-0.5	03/23/23	<0.000383	<0.000454	<0.000563	<0.000343	<0.000343	17.4 J	<15.0	17.4 J	<15.0	17.4 J	***1,200***
	2	03/23/23	<0.000383	<0.000453	<0.000562	<0.000342	<0.000342	19.1 J	<15.0	19.1 J	<15.0	19.1 J	***979***
SB-10	0-0.5	03/23/23	<0.000384	<0.000455	<0.000564	<0.000343	<0.000343	16.8 J	<15.0	16.8 J	15.9 J B	32.7 J	461
	2	03/23/23	<0.000387	<0.000459	<0.000568	<0.000346	<0.000346	16.6 J	<15.0	16.6 J	<15.0	16.6 J	543
	4	03/23/23	<0.000389	<0.000461	<0.000571	<0.000347	<0.000347	19.9 J	<15.0	19.9 J	<15.0	19.9 J	397
SB-11	0-0.5	03/23/23	<0.000386	<0.000457	<0.000566	<0.000345	<0.000345	23.6 J	51.6 B	75.2 J B	16.2 J B	91.4	***2,990***
	2	03/23/23	<0.000383	<0.000454	<0.000563	<0.000343	<0.000343	<15.0	59.1 B	59.1 B	21.1 J B	80.2	***2,490***
	4	03/23/23	<0.000383	<0.000453	<0.000562	<0.000342	<0.000342	17.1 J	49.7 J B	66.8 J B	18.6 J B	85.4	***2,770***
SB-12	0-0.5	03/23/23	< 0.000383	<0.000453	<0.000562	<0.000342	<0.000342	18.1 J	20.2 J B	38.3 J B	<15.0	38.3 J	203
	2	03/23/23	<0.000384	<0.000455	<0.000564	0.00106 J	0.00106 J	21.9 J	60.6 B	82.5 J B	31.5 J B	***114***	176
	4	03/23/23	<0.000387	<0.000459	<0.000568	<0.000346	<0.000346	19.8 J	17.5 J B	37.3 J B	17.4 J B	54.7	172
SB-13	1	01/19/24	--	--	--	--	--	--	--	--	--	--	***1,190***
	2	01/19/24	<0.000383	0.00111 J	<0.000563	0.00212 J	0.00323 J	16.7 J *1	32.6 J B	49.3 J B *1	<15.0	49.3 J B *1	224
	4	01/19/24	--	--	--	--	--	--	--	--	--	--	366
SB-14	1	01/19/24	--	--	--	--	--	--	--	--	--	--	43.8
	2	01/19/24	<0.000384	<0.000455	<0.000564	<0.000343	<0.00101	30.5 J *1	38.3 J B	68.8 J B *1	<15.1	68.8 J B *1	46.7
	4	01/19/24	--	--	--	--	--	--	--	--	--	--	***607***
SB-15	1	01/19/24	--	--	--	--	--	--	--	--	--	--	122
	2	01/19/24	<0.000383	<0.000454	<0.000563	0.00101	0.00101	29.0 J *1	35.9 J B	64.9 J B *1	<15.0	64.9 J B *1	***1,300***
	4	01/19/24	--	--	--	--	--	--	--	--	--	--	***1,250***
SB-16	1	01/22/24	--	--	--	--	--	--	--	--	--	--	12.6
	2	01/22/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<25.0	<25.0	<25.0	<25.0	<25.0	***801***
SB-17	1	01/22/24	--	--	--	--	--	--	--	--	--	--	7.91
	2	01/22/24	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<25.1	<25.1	<25.1	<25.1	<25.1	28.9

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Table 1
Soil Analytical Results
Chevron Environmental Management Company
WLU 41

ARCADIS

Sample I.D.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standard (> 4 feet)			10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements < 4 ft)			10	--	--	--	50	--	--	--	--	100	600
SB-18	1	01/22/24	--	--	--	--	--	--	--	--	--	--	3.39 J
	2	01/22/24	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<25.2	<25.2	<25.2	<25.2	<25.2	465
	4	01/22/24	--	--	--	--	--	--	--	--	--	--	***794***
SB-19	1	01/22/24	--	--	--	--	--	--	--	--	--	--	19.7
	2	01/22/24	<0.000383	0.000577 J	<0.000563	<0.00101	0.00129 J	<25.0	118	118	75.5	***194***	8.79
	3	01/22/24	--	--	--	--	--	--	--	--	--	--	11.9
SB-20	1	01/22/24	--	--	--	--	--	--	--	--	--	--	5.04
	2	01/22/24	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<24.9	25.4 J	25.4 J	<24.9	25.4 J	***1,120***
	4	01/22/24	--	--	--	--	--	--	--	--	--	--	***1,100***
SB-21	1	01/22/24	--	--	--	--	--	--	--	--	--	--	***2,540***
	2	01/22/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<25.0	<25.0	<25.0	<25.0	<25.0	***1,290***
	4	01/22/24	--	--	--	--	--	--	--	--	--	--	***1,000***
SB-22	1	01/24/24	--	--	--	--	--	--	--	--	--	--	5.13
	2	01/24/24	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<24.9	<24.9	<24.9	<24.9	<24.9	68.1
SB-23	1	02/02/24	--	--	--	--	--	--	--	--	--	--	168
	2	02/02/24	<0.000383	<0.000453	0.00360	0.0217	0.0253	41.7 J B	28.9 J	70.6 J B	<15.0	70.6	146
SB-24	1	01/24/24	--	--	--	--	--	--	--	--	--	--	13.3
	2	01/24/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<24.9	<24.9	<24.9	<24.9	<24.9	17.5

Legend:
BOLD = Analytes exceeding NMAC standards / Restoration Requirement
J: Result is less than the Reporting Limit but greater than or equal to the MDL and the concentration is an approximate value
B: Compound was found in the blank and sample.
*1: LCS/LCSD RPD exceeds control limits.
'<' 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. Criteria based off of groundwater depth of less than 50 feet.
TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics
TPH MRO: Total Petroluem Hydrocarbons Motor Oil Range Organics
TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics
Total TPH: GRO + DRO + MRO
*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018
DUP: Duplicate sample
Notes:
1. Chloride analyzed by United States Environmental Protection Agency Method 300
2. TPH analyzed by TPH by SW8015 Mod DRO/ORO Method
3. BTEX analyzed by USEPA Method 8021B
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures



Legend

Site Location

Credits: ESRI Online, Google Earth

0 2,000 4,000 Feet

GRAPHIC SCALE

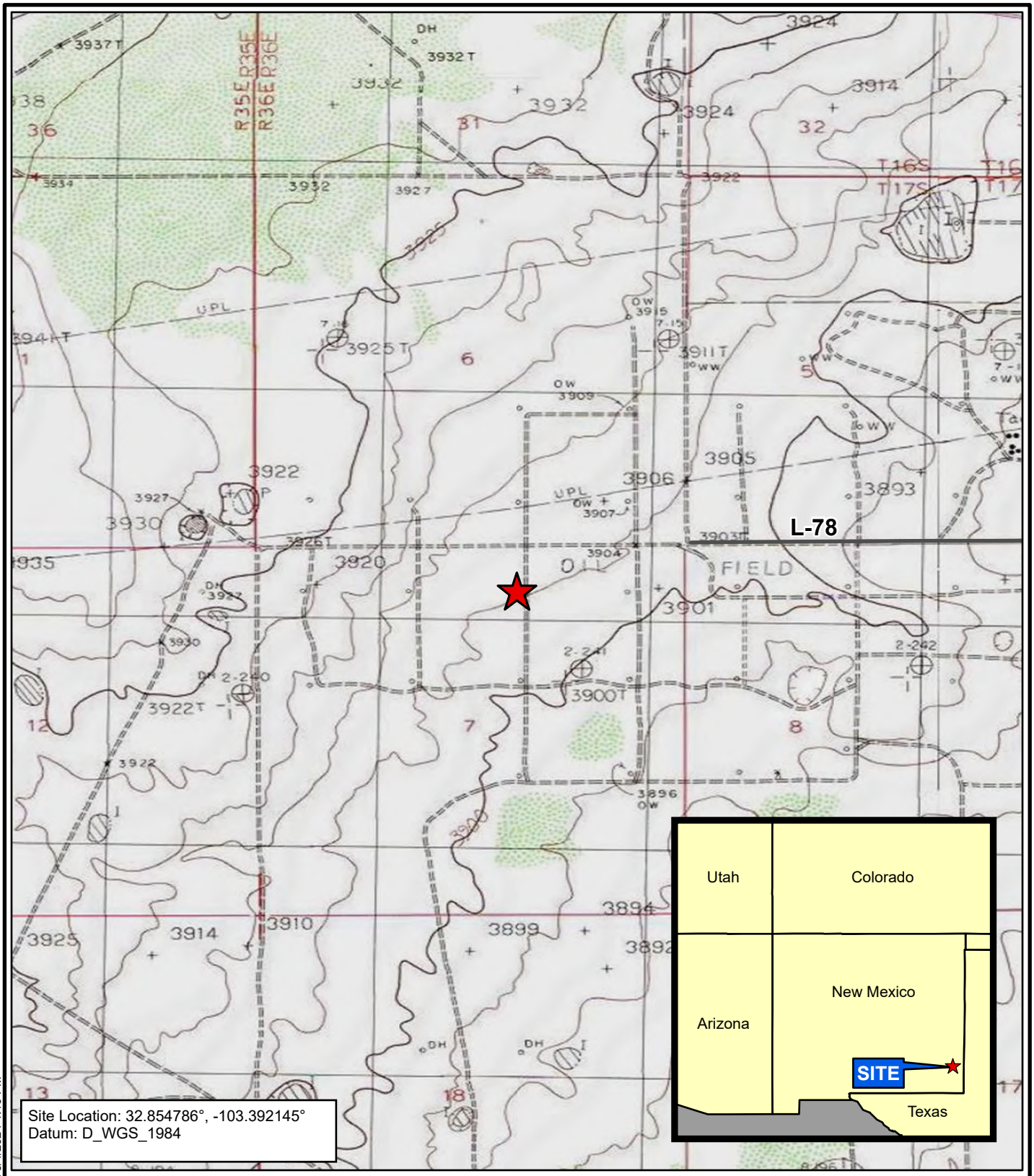
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #041
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: vmn1306 ; Client (Project #)
T:_ENV\Upstream\WLU 41\Pro\WLU 41.aprx 6/4/2024 9:36 AM



Legend

Site Location

Credits: ESRI Online, USGS 24,000 K Topo (Map Service)
Red Lake, New Mexico Quadrangle

0 2,000 4,000 Feet
GRAPHIC SCALE

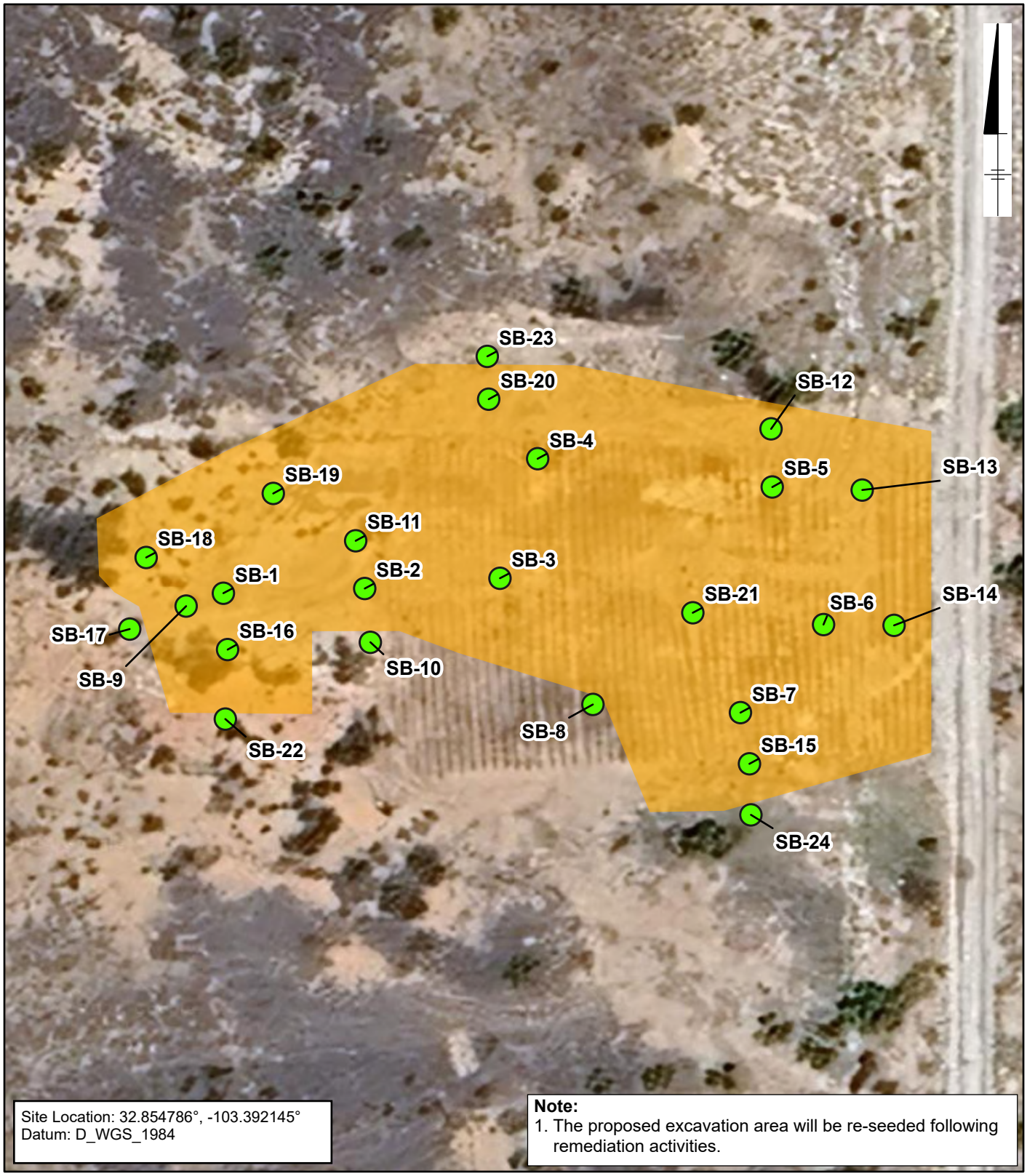
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #041
LEA COUNTY, NEW MEXICO

TOPOGRAPHIC MAP

ARCADIS

FIGURE 2

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: vmn1306 ; Client (Project #)
T:_ENV\Upstream\WLU 41\Pro\WLU_41.aprx 6/4/2024 1:49 PM



Site Location: 32.854786°, -103.392145°
Datum: D_WGS_1984

Note:
1. The proposed excavation area will be re-seeded following remediation activities.

Legend

- Previous Assessment Sample Location
- Proposed Excavation Area

0 50 100 Feet
GRAPHIC SCALE

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #041
LEA COUNTY, NEW MEXICO

PROPOSED EXCAVATION AND SAMPLE LOCATION MAP

ARCADIS

FIGURE
3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: vmn1306 ; Client (Project #)
T:_ENV\Upstream\WLU 41\Pro\WLU 41.aprx 6/4/2024 9:36 AM

Appendix A

Initial C-141 Form Incident # nGRL1006731469

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Chevron Mid-Continent LP	Contact Kim Klahsen
Address HCR 60 Box 423 Lovington, NM 88260	Telephone No. 575-396-4414 X 128 432-894-3298 (Cell)
Facility Name West Lovington Well # 41	Facility Type Injection Well

Surface Owner Chevron	Mineral Owner State of NM	Lease No. B-4120-1

LOCATION OF RELEASE

API# 30-025-03901-00-00

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	07	17 S	36 E	660	FNL	1980	FEL	Lea

Latitude N 32degree 51minutes 17.2seconds Longitude W 103degrees 23minutes 31seconds

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 20 bbl	Volume Recovered 14 bbl
Source of Release injection line	Date and Hour of Occurrence 3/27/09	Date and Hour of Discovery 3/27/09 7:30 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD-	
By Whom? Larry Ridenour	Date and Hour 3/27/09 10:41 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
No Impact to watercourse.

WATER (G) 49'

Describe Cause of Problem and Remedial Action Taken.*

An injection line leaked below ground. Water pooled on the surface and a vacuum truck was immediately dispatched to recover the pooled water. A work order was completed to remove several inches of contaminated soil.

Describe Area Affected and Cleanup Action Taken.*

The Vacuum truck recovered 14 bbls of produced water. Surface soil will be removed with a backhoe. A plan will be developed and submitted for approval.

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: Kim Klahsen	Approved by ~~District Supervisor~~ ENV ENGINEER:
Title: HES Specialist	Approval Date: 03/08/10 Expiration Date: 05/10/10
E-mail Address: KDKL@chevron.com	Conditions of Approval: DELINEATE TO CLEAN +1. SUBMIT FINAL C-141 BY Attached ☐
Date: 4/2/09 Phone:575-396-4414	IRP-10-3-2446

fGRL1006730948

Appendix B

Photo Log

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Incident No.
West Lovington Unit #041	Lea County, TX	nGRL1006731469

Photo No.	Date:
1	5/02/2024

Direction Photo Taken:

Facing West

Description:

USGS well 325108103233801 located approximately 0.29 miles northwest of the Site was gauged with a water meter by Arcadis on May 2, 2024, and well was verified as dry at 52.14 ft below ground surface (bgs).



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Incident No.
West Lovington Unit #041	Lea County, TX	nGRL1006731469

Photo No.	Date:
2	5/02/2024

Direction Photo Taken:

Facing West

Description:

USGS well 325108103233801 being gauged by Arcadis on May 2, 2024, and well was verified as dry at 52.14 ft below ground surface (bgs).



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
WL Well 41	Lea County, NM	1RP-2446

Photo No.	Date:
1	01/14/2021

Direction Photo Taken:

Facing west

Description:

East center of pad



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
WL Well 41	Lea County, NM	1RP-2446

Photo No.	Date:
2	01/14/2021

Direction Photo Taken:

Northwest

Description:

Southeast of pad



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
WL Well 41	Lea County, NM	1RP-2446

Photo No.	Date:
3	01/14/2021

Direction Photo Taken:

Facing west

Description:

Southeast of pad



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
WL Well 41	Lea County, NM	1RP-2446

Photo No.	Date:
4	01/14/2021

Direction Photo Taken:

Facing north

Description:

South center of pad



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
WL Well 41	Lea County, NM	1RP-2446

Photo No.	Date:
5	01/14/2021

Direction Photo Taken:

Facing north

Description:

Southwest corner of pad



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
WL Well 41	Lea County, NM	1RP-2446

Photo No.	Date:
6	01/14/2021

Direction Photo Taken:

Facing southeast

Description:

Northwest corner of pad



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
WL Well 41	Lea County, NM	1RP-2446

Photo No.	Date:
7	01/14/2021

Direction Photo Taken:

Facing south

Description:

Northwest corner of pad



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
WL Well 41	Lea County, NM	1RP-2446

Photo No.	Date:
8	01/14/2021

Direction Photo Taken:

Facing south

Description:

North of pad



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Case No.
WL Well 41	Lea County, NM	1RP-2446

Photo No.	Date:
9	01/14/2021

Direction Photo Taken:

Facing east

Description:

West of pad



Appendix C

Boring Logs

Date Start/Finish: 1/14/2021 **Drilling Company:** Arcadis **Drilling Method:** Hand Auger **Sampling Method:** Hand Auger Grab	**Borehole Depth:** 3.25 **Surface Elevation:** N/A **Descriptions By:** Justin Steinmann	**Well/Boring ID:** SB-1 **Client:** Chevron **Location:** WL Well 41

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
0	0-0.5'		sandy clay 7.5YR 5/3 brown, clay, pliable, non-plastic, wet, with very fine sand, some, moderately to well sorted, subrounded, throughout. USCS - CL
1-2'			clayey sand, 10YR 7/3 very pale brown, very fine sand, well sorted, subrounded, with little silt, little to some clay, non-plastic, pliable, dry. USCS - SC
3-3.25'			End of boring 3.25' bgs. Refusal at 3.25' on caliche hardpan

ARCADIS

Remarks: Total Depth: 3.25' Below Ground Surface (bgs)

Project: 30064856 Template: LPTEMPLATE_HA_Final *Page: 1 of 1*
Data File: SB-1 Date: 2/11/2021 Created/Edited by: AD

Date Start/Finish: 1/14/2021 **Drilling Company:** Arcadis **Drilling Method:** Hand Auger **Sampling Method:** Hand Auger Grab	**Borehole Depth:** 3.25 **Surface Elevation:** N/A **Descriptions By:** Justin Steinmann	**Well/Boring ID:** SB-2 **Client:** Chevron **Location:** WL Well 41

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
0	0-0.5'		silty sand 7.5YR 5/3 brown, very fine to fine sand, moderately to well sorted, silty, loose to soft, wet, at 0.25' becoming dry, color change to 10YR 7/3 very pale brown, loose. USCS - SM
1	1-2'		clayey sand, 10YR 6/3 pale brown, very fine sand, as above, well sorted, with silt being replaced by clay, pliable, non-plastic, throughout, soft to firm, dry. USCS - SC
3	3-3.25'		End of boring 3.25' bgs. Refusal at 3.25' on caliche

ARCADIS

Remarks: Total Depth: 3.25' Below Ground Surface (bgs)

Project: 30064856 Template: LPTEMPLATE_HA_Final

Data File: SB-2 Date: 2/11/2021 Created/Edited by: AD

Date Start/Finish: 1/14/2021 **Drilling Company:** Arcadis **Drilling Method:** Hand Auger **Sampling Method:** Hand Auger Grab	**Borehole Depth:** 4 **Surface Elevation:** N/A **Descriptions By:** Justin Steinmann	**Well/Boring ID:** SB-4 **Client:** Chevron **Location:** WL Well 41

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
0	0-0.5'		silty sand 7.5YR 5/3 brown sand, very fine, well sorted, subrounded, silty, with trace to little clay, wet becoming dry at 0.25', loose, color change to 10YR 6/3 pale brown. USCS - SM
1	1-2'		silty sand, as above, becoming firm to hard, dry, compact, moderately cemented. USCS - SM
2			silty sand 7.5YR 5/6 strong brown, fine to very fine sand, moderately sorted, silty, friable to firm, moderately cemented, calcareous, trace to little roots, little to some iron oxide staining and mottling throughout. USCS - SM
3			sandy clay, 5YR 5/4 reddish brown clay, moderately pliable, non-plastic, dry, hard, with very fine to fine sand throughout, calcareous, little to some roots. USCS - CL
4	3-4'		back to silty sand as 2.75-3', becoming loose. USCS - SM
5			End of boring 4' bgs. Refusal on caliche

ARCADIS

Remarks: Total Depth: 4' Below Ground Surface (bgs)

Project: 30064856 Template: LPTEMPLATE_HA_Final

Data File: SB-4 Date: 2/12/2021 Created/Edited by: AD

Date Start/Finish: 1/15/2021 **Drilling Company:** Arcadis **Drilling Method:** Hand Auger **Sampling Method:** Hand Auger Grab	**Borehole Depth:** 6 **Surface Elevation:** N/A **Descriptions By:** Justin Steinmann	**Well/Boring ID:** SB-6 **Client:** Chevron **Location:** WL Well 41

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
0	0-0.5'		silty sand 7.5YR 4/3 brown sand, very fine to fine, well sorted, subrounded, silty, loose, dry, trace to little clay appearing at 1' becoming loose to firm, at 2.5' color change to 10YR 7/3 very pale brown. USCS - SM
	1-2'		
	3-4'		sand 7.5YR 8/4 pink, very fine sand, well sorted, subrounded, silty, loose with little to some friable nodules, calcareous, poorly cemented, at 4' becoming firm to friable, at 5.5' little to some clay throughout, becoming moderately pliable, trace caliche pebbles. USCS - SP/SC
5	5-6'		
			End of boring 6' bgs.

ARCADIS

Remarks: Total Depth: 6' Below Ground Surface (bgs)

Project: 30064856 Template: LPTEMPLATE_HA_Final

Data File: SB-6 Date: 2/12/2021 Created/Edited by: AD

Date Start/Finish: 1/15/2021 **Drilling Company:** Arcadis **Drilling Method:** Hand Auger **Sampling Method:** Hand Auger Grab	**Borehole Depth:** 5.5 **Surface Elevation:** N/A **Descriptions By:** Justin Steinmann	**Well/Boring ID:** SB-7 **Client:** Chevron **Location:** WL Well 41

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
0	0-0.5'		sandy clay 7.5YR 3/2 dark brown, moderately pliable, non-plastic, slightly moist, firm to blocky, with sand, very fine, moderately sorted throughout. USCS - CL
	1-2'		silty sand 10YR 5/2 grayish brown, very fine sand, well sorted, subrounded, silty, loose, dry, at 2.5' becoming friable to firm. USCS - SM
	3-4'		sand 10YR 5/2 grayish brown. very fine, well sorted, subrounded, loose, dry, trace calacareous nodules, prroly cemented, friable, granule to pebble sized, subangular.
5	5-5.5'		End of boring 5.5' bgs. refusal on caliche

ARCADIS

Remarks: Total Depth: 5.5' Below Ground Surface (bgs)

Project: 30064856 Template: LPTEMPLATE_HA_Final Page: 1 of 1
Data File: SB-7 Date: 2/12/2021 Created/Edited by: AD

Date Start/Finish: 1/15/2021 **Drilling Company:** Arcadis **Drilling Method:** Hand Auger **Sampling Method:** Hand Auger Grab	**Borehole Depth:** 4 **Surface Elevation:** N/A **Descriptions By:** Justin Steinmann	**Well/Boring ID:** SB-8 **Client:** Chevron **Location:** WL Well 41

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
0	0-0.5'		clayey sand 7.5YR dark brown, very fine sand, well sorted, subrounded, trace to little clay, slightly pliable, non-plastic, throughout, blocky to loose, slightly mooist, at 0.5' becoming firm, dry. USCS - SC
1	1-2'		
2			
3	3-4'		sand 10YR 5/2 grayish brown, very fine, well sorted, subrounded, trace silt/clay, loose to firm, dry, trace calcareous nodules, friable. USCS - SP
4			End of boring 4' bgs. refusal on caliche
5			

ARCADIS

Remarks: Total Depth: 4' Below Ground Surface (bgs)

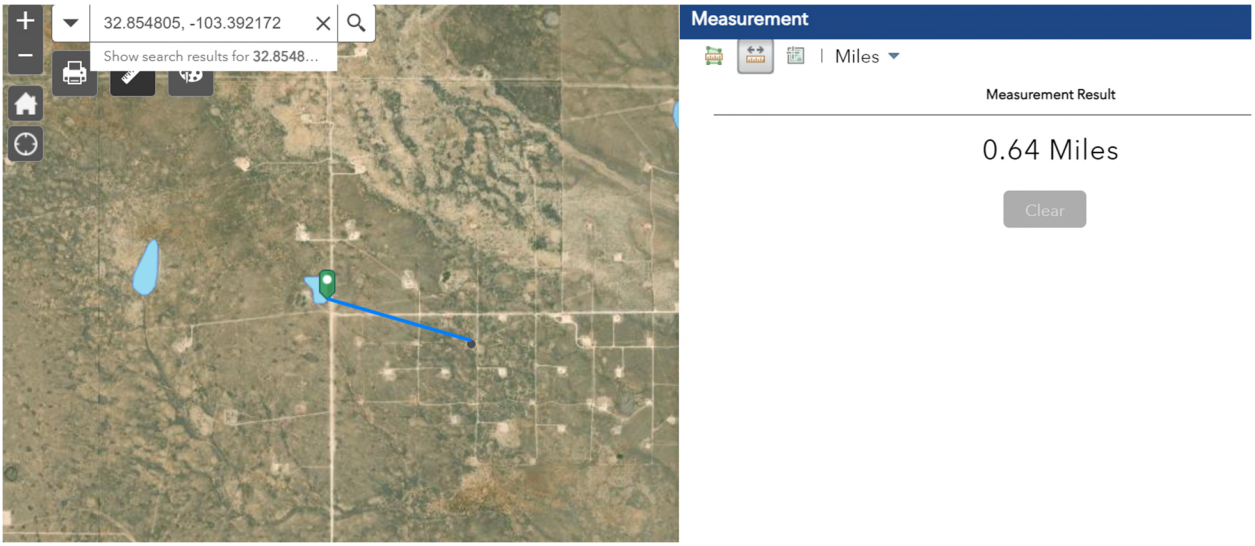
Project: 30064856 Template: LPTEMPLATE_HA_Final

Data File: SB-8 Date: 2/12/2021 Created/Edited by: AD

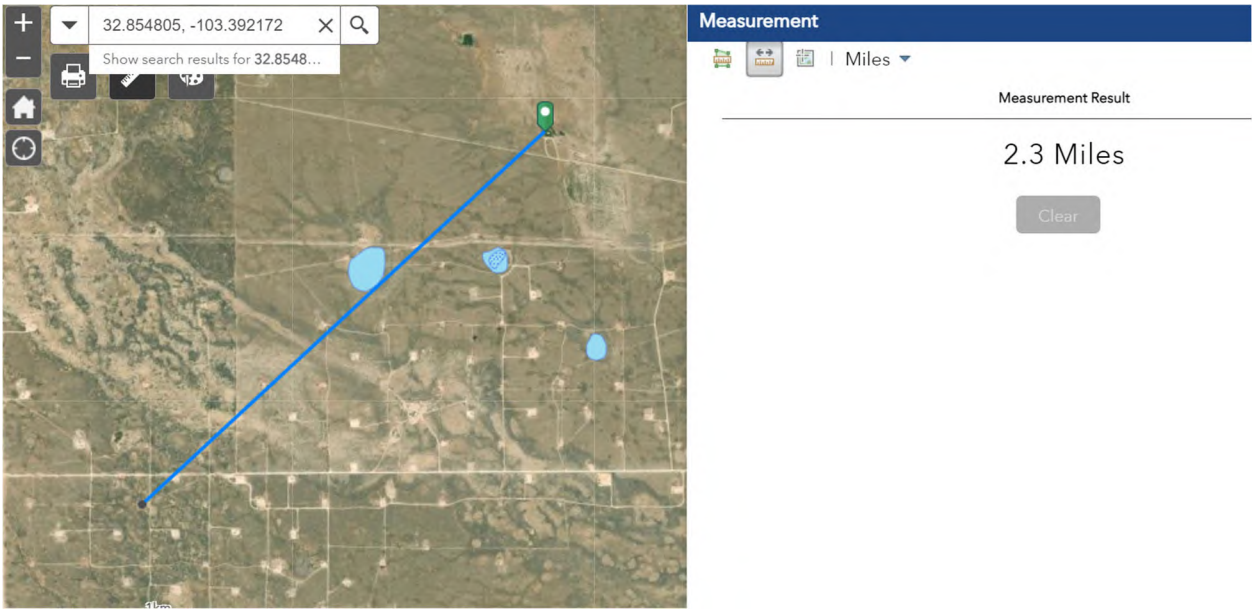
Appendix D

Site Characterization Data

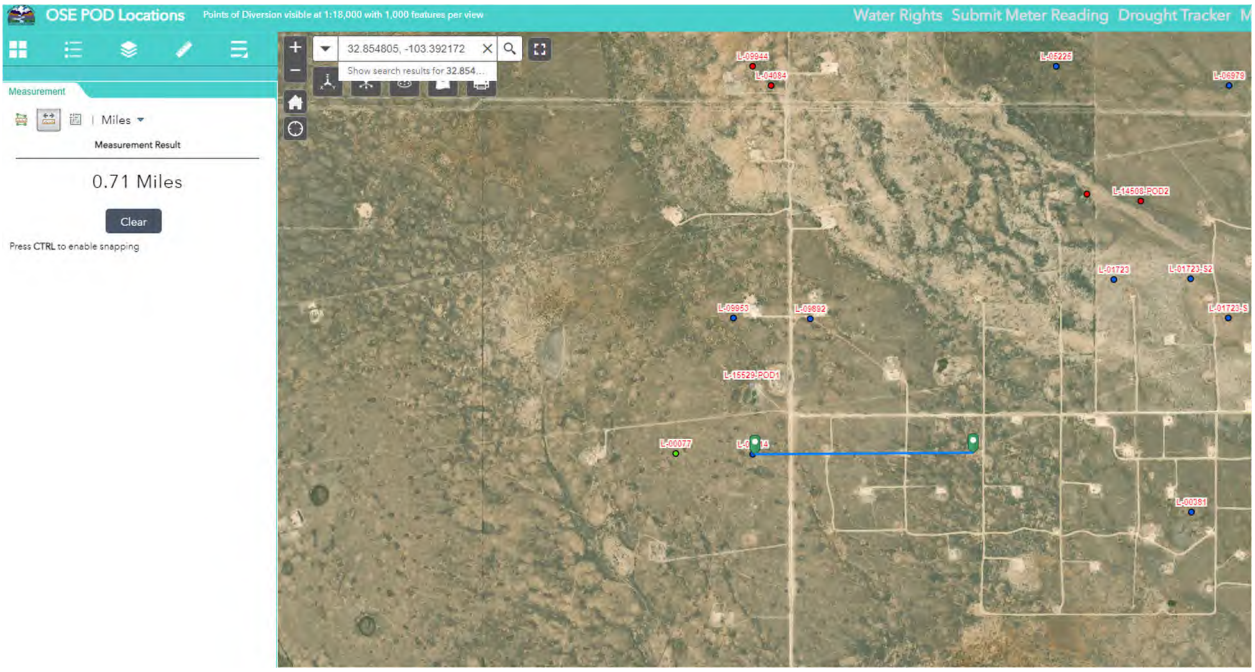
Distance to lakebed, sinkhole, or playa lake.



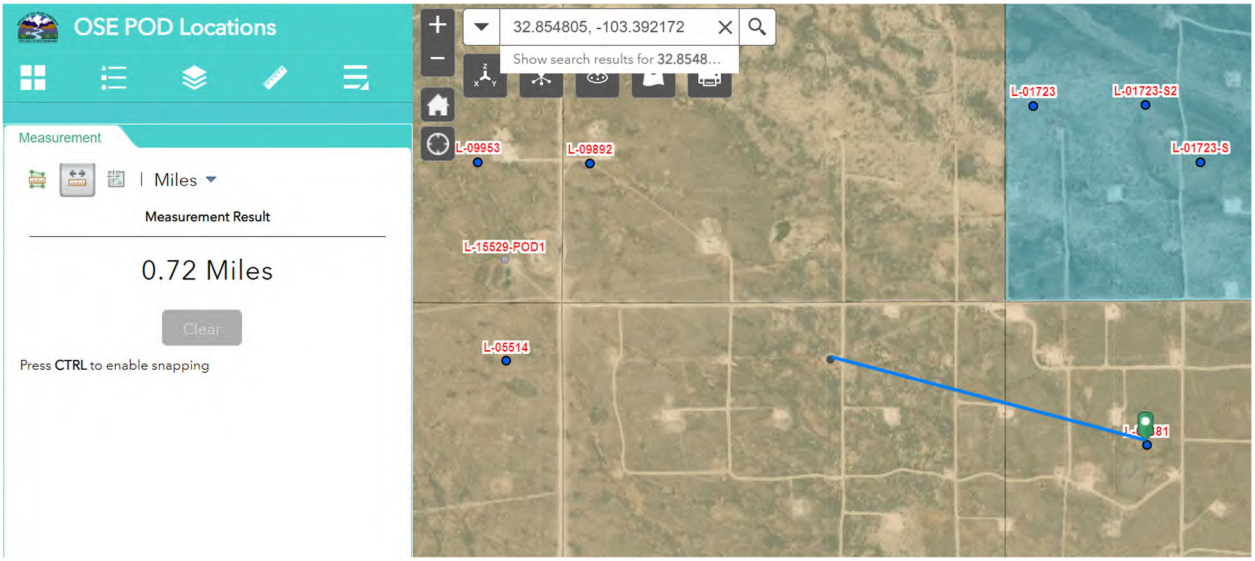
Distance to occupied permanent residence, school, hospital, institution, or church.



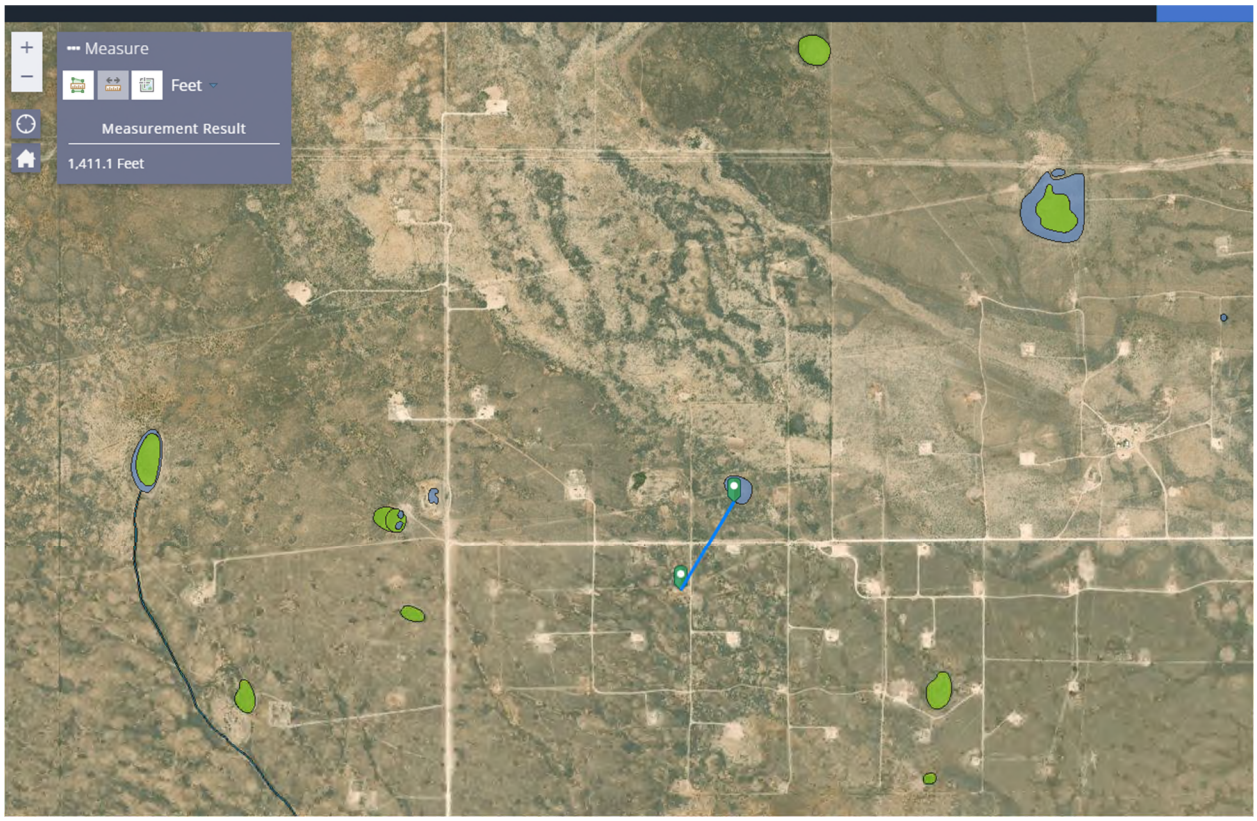
Distance to spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes (L-05514).



Distance to any other fresh water well or spring (L-00381).



Distance to a wetland.



Appendix E

Laboratory Analytical Reports

Analytical Report 684988

for

Arcadis U.S., Inc

Project Manager: Morgan Jordan

WL Well 41

03064856-0002B

02.22.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

02.22.2021

Project Manager: **Morgan Jordan**
Arcadis U.S., Inc
1717 W 6th Street, Suite 210
Austin, TX 78703

Reference: Eurofins Xenco, LLC Report No(s): **684988**
WL Well 41
Project Address:

Morgan Jordan:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684988. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684988 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Sachin Kudchadkar
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1-S-0-.5-210114	S	01.14.2021 11:26		684988-001
SB-1-S-1-2-210114	S	01.14.2021 11:34		684988-002
SB-1-S-3-3.5-210114	S	01.14.2021 11:45		684988-003
SB-2-S-0-.5-210114	S	01.14.2021 12:03		684988-004
SB-2-S-1-2-210114	S	01.14.2021 12:14		684988-005
SB-2-S-3-3.5-210114	S	01.14.2021 12:22		684988-006
SB-3-S-0-.5-210114	S	01.14.2021 13:07		684988-007
SB-3-S-1-2-210114	S	01.14.2021 13:15		684988-008
SB-4-S-0-.5-210114	S	01.14.2021 14:27		684988-009
SB-4-S-1-2-210114	S	01.14.2021 15:00		684988-010
SB-4-SD-1-2-210114	S	01.14.2021 00:00		684988-011
SB-4-S-3-4-210114	S	01.14.2021 15:23		684988-012

CASE NARRATIVE

Client Name: Arcadis U.S., Inc

Project Name: WL Well 41

Project ID: *03064856-0002B*
Work Order Number(s): *684988*

Report Date: *02.22.2021*
Date Received: *01.15.2021*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **SB-1-S-0-.5-210114**
Matrix: Soil
Date Received:01.15.2021 16:58
Lab Sample Id: 684988-001
Date Collected: 01.14.2021 11:26

Analytical Method: Chloride by EPA 300
Prep Method: E300P
Tech: CHE
Analyst: CHE
Seq Number: 3148186
Date Prep: 01.18.2021 16:30
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1090**	25.1	4.31	mg/kg	01.18.2021 23:49		5

Analytical Method: TPH By SW8015 Mod
Prep Method: SW8015P
Tech: DVM
Analyst: ARM
Seq Number: 3148362
Date Prep: 01.19.2021 16:00
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 15:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.19.2021 15:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 15:24	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	01.19.2021 15:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	01.19.2021 15:24	
o-Terphenyl	84-15-1	82	%	70-130	01.19.2021 15:24	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-1-S-0-.5-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-001	Date Collected:	01.14.2021 11:26		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000385	0.00200	0.000385	mg/kg	01.20.2021 17:57	U	1
Toluene	108-88-3	<0.000456	0.00200	0.000456	mg/kg	01.20.2021 17:57	U	1
Ethylbenzene	100-41-4	<0.000565	0.00200	0.000565	mg/kg	01.20.2021 17:57	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00400	0.00101	mg/kg	01.20.2021 17:57	U	1
o-Xylene	95-47-6	<0.000344	0.00200	0.000344	mg/kg	01.20.2021 17:57	U	1
Total Xylenes	1330-20-7	<0.000344	0.00200	0.000344	mg/kg	01.20.2021 17:57	U	1
Total BTEX		<0.000344	0.00200	0.000344	mg/kg	01.20.2021 17:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	01.20.2021 17:57	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.20.2021 17:57	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **SB-1-S-1-2-210114** Matrix: Soil Date Received:01.15.2021 16:58

Lab Sample Id: 684988-002 Date Collected: 01.14.2021 11:34

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.18.2021 16:30 % Moisture:

Seq Number: 3148186 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2140**	25.0	4.29	mg/kg	01.18.2021 23:54		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.19.2021 16:00 % Moisture:

Seq Number: 3148362 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 16:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.19.2021 16:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 16:19	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	01.19.2021 16:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	01.19.2021 16:19	
o-Terphenyl	84-15-1	83	%	70-130	01.19.2021 16:19	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-1-S-1-2-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-002	Date Collected:	01.14.2021 11:34		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000386	0.00200	0.000386	mg/kg	01.20.2021 18:17	U	1
Toluene	108-88-3	<0.000457	0.00200	0.000457	mg/kg	01.20.2021 18:17	U	1
Ethylbenzene	100-41-4	<0.000566	0.00200	0.000566	mg/kg	01.20.2021 18:17	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00401	0.00102	mg/kg	01.20.2021 18:17	U	1
o-Xylene	95-47-6	<0.000345	0.00200	0.000345	mg/kg	01.20.2021 18:17	U	1
Total Xylenes	1330-20-7	<0.000345	0.00200	0.000345	mg/kg	01.20.2021 18:17	U	1
Total BTEX		<0.000345	0.00200	0.000345	mg/kg	01.20.2021 18:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.20.2021 18:17	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.20.2021 18:17	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-1-S-3-3.5-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-003	Date Collected:	01.14.2021 11:45		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.18.2021 16:30	% Moisture:	
Seq Number:	3148186			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1230**	24.8	4.26	mg/kg	01.19.2021 00:00		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.19.2021 16:00	% Moisture:	
Seq Number:	3148362			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	49.9	15.0	mg/kg	01.19.2021 16:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	49.9	15.0	mg/kg	01.19.2021 16:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	49.9	15.0	mg/kg	01.19.2021 16:38	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	01.19.2021 16:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	01.19.2021 16:38	
o-Terphenyl	84-15-1	80	%	70-130	01.19.2021 16:38	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-1-S-3-3.5-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-003	Date Collected:	01.14.2021 11:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000384	0.00200	0.000384	mg/kg	01.20.2021 18:38	U	1
Toluene	108-88-3	<0.000455	0.00200	0.000455	mg/kg	01.20.2021 18:38	U	1
Ethylbenzene	100-41-4	<0.000564	0.00200	0.000564	mg/kg	01.20.2021 18:38	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00399	0.00101	mg/kg	01.20.2021 18:38	U	1
o-Xylene	95-47-6	<0.000344	0.00200	0.000344	mg/kg	01.20.2021 18:38	U	1
Total Xylenes	1330-20-7	<0.000344	0.00200	0.000344	mg/kg	01.20.2021 18:38	U	1
Total BTEX		<0.000344	0.00200	0.000344	mg/kg	01.20.2021 18:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.20.2021 18:38	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.20.2021 18:38	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **SB-2-S-0-.5-210114** Matrix: Soil Date Received:01.15.2021 16:58

Lab Sample Id: 684988-004 Date Collected: 01.14.2021 12:03

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.18.2021 16:30 % Moisture:

Seq Number: 3148186 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6150**	101	17.3	mg/kg	01.19.2021 00:05		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.19.2021 16:00 % Moisture:

Seq Number: 3148362 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 16:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	**38.8**	50.0	15.0	mg/kg	01.19.2021 16:56	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 16:56	U	1
Total TPH	PHC635	**38.8**	50.0	15.0	mg/kg	01.19.2021 16:56	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	01.19.2021 16:56	
o-Terphenyl	84-15-1	81	%	70-130	01.19.2021 16:56	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-2-S-0-.5-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-004	Date Collected:	01.14.2021 12:03		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000386	0.00201	0.000386	mg/kg	01.20.2021 18:58	U	1
Toluene	108-88-3	<0.000457	0.00201	0.000457	mg/kg	01.20.2021 18:58	U	1
Ethylbenzene	100-41-4	<0.000567	0.00201	0.000567	mg/kg	01.20.2021 18:58	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00402	0.00102	mg/kg	01.20.2021 18:58	U	1
o-Xylene	95-47-6	<0.000346	0.00201	0.000346	mg/kg	01.20.2021 18:58	U	1
Total Xylenes	1330-20-7	<0.000346	0.00201	0.000346	mg/kg	01.20.2021 18:58	U	1
Total BTEX		<0.000346	0.00201	0.000346	mg/kg	01.20.2021 18:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.20.2021 18:58	
4-Bromofluorobenzene	460-00-4	98	%	70-130	01.20.2021 18:58	

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WL Well 41

Sample Id:	**SB-2-S-1-2-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-005	Date Collected:	01.14.2021 12:14		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.18.2021 16:30	% Moisture:	
Seq Number:	3148186			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4220**	50.0	8.58	mg/kg	01.19.2021 00:21		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.19.2021 16:00	% Moisture:	
Seq Number:	3148362			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 17:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	**59.8**	50.0	15.0	mg/kg	01.19.2021 17:15		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**21.8**	50.0	15.0	mg/kg	01.19.2021 17:15	J	1
Total TPH	PHC635	**81.6**	50.0	15.0	mg/kg	01.19.2021 17:15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	01.19.2021 17:15	
o-Terphenyl	84-15-1	84	%	70-130	01.19.2021 17:15	

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WL Well 41

Sample Id:	**SB-2-S-1-2-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-005	Date Collected:	01.14.2021 12:14		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000381	0.00198	0.000381	mg/kg	01.20.2021 20:22	U	1
Toluene	108-88-3	<0.000451	0.00198	0.000451	mg/kg	01.20.2021 20:22	U	1
Ethylbenzene	100-41-4	<0.000559	0.00198	0.000559	mg/kg	01.20.2021 20:22	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00396	0.00100	mg/kg	01.20.2021 20:22	U	1
o-Xylene	95-47-6	<0.000341	0.00198	0.000341	mg/kg	01.20.2021 20:22	U	1
Total Xylenes	1330-20-7	<0.000341	0.00198	0.000341	mg/kg	01.20.2021 20:22	U	1
Total BTEX		<0.000341	0.00198	0.000341	mg/kg	01.20.2021 20:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.20.2021 20:22	
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.20.2021 20:22	

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WL Well 41

Sample Id: **SB-2-S-3-3.5-210114** Matrix: Soil Date Received:01.15.2021 16:58

Lab Sample Id: 684988-006 Date Collected: 01.14.2021 12:22

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.18.2021 16:30 % Moisture:

Seq Number: 3148186 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3790**	50.4	8.65	mg/kg	01.19.2021 00:26		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.19.2021 16:00 % Moisture:

Seq Number: 3148362 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	49.9	15.0	mg/kg	01.19.2021 17:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	**30.3**	49.9	15.0	mg/kg	01.19.2021 17:33	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	49.9	15.0	mg/kg	01.19.2021 17:33	U	1
Total TPH	PHC635	**30.3**	49.9	15.0	mg/kg	01.19.2021 17:33	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	01.19.2021 17:33	
o-Terphenyl	84-15-1	82	%	70-130	01.19.2021 17:33	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-2-S-3-3.5-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-006	Date Collected:	01.14.2021 12:22		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000383	0.00199	0.000383	mg/kg	01.20.2021 20:42	U	1
Toluene	108-88-3	<0.000454	0.00199	0.000454	mg/kg	01.20.2021 20:42	U	1
Ethylbenzene	100-41-4	<0.000563	0.00199	0.000563	mg/kg	01.20.2021 20:42	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00398	0.00101	mg/kg	01.20.2021 20:42	U	1
o-Xylene	95-47-6	<0.000343	0.00199	0.000343	mg/kg	01.20.2021 20:42	U	1
Total Xylenes	1330-20-7	<0.000343	0.00199	0.000343	mg/kg	01.20.2021 20:42	U	1
Total BTEX		<0.000343	0.00199	0.000343	mg/kg	01.20.2021 20:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.20.2021 20:42	
4-Bromofluorobenzene	460-00-4	102	%	70-130	01.20.2021 20:42	

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WL Well 41

Sample Id: **SB-3-S-0-.5-210114**
Matrix: Soil
Date Received:01.15.2021 16:58
Lab Sample Id: 684988-007
Date Collected: 01.14.2021 13:07

Analytical Method: Chloride by EPA 300
Prep Method: E300P
Tech: CHE
Analyst: CHE
Seq Number: 3148186
Date Prep: 01.18.2021 16:30
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4610**	49.5	8.50	mg/kg	01.19.2021 00:42		10

Analytical Method: TPH By SW8015 Mod
Prep Method: SW8015P
Tech: DVM
Analyst: ARM
Seq Number: 3148362
Date Prep: 01.19.2021 16:00
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**17.9**	50.0	15.0	mg/kg	01.19.2021 17:52	J	1
Diesel Range Organics (DRO)	C10C28DRO	**26.9**	50.0	15.0	mg/kg	01.19.2021 17:52	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 17:52	U	1
Total TPH	PHC635	**44.8**	50.0	15.0	mg/kg	01.19.2021 17:52	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	01.19.2021 17:52	
o-Terphenyl	84-15-1	78	%	70-130	01.19.2021 17:52	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-3-S-0-.5-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-007	Date Collected:	01.14.2021 13:07		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000383	0.00199	0.000383	mg/kg	01.20.2021 21:03	U	1
Toluene	108-88-3	<0.000454	0.00199	0.000454	mg/kg	01.20.2021 21:03	U	1
Ethylbenzene	100-41-4	<0.000563	0.00199	0.000563	mg/kg	01.20.2021 21:03	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00398	0.00101	mg/kg	01.20.2021 21:03	U	1
o-Xylene	95-47-6	<0.000343	0.00199	0.000343	mg/kg	01.20.2021 21:03	U	1
Total Xylenes	1330-20-7	<0.000343	0.00199	0.000343	mg/kg	01.20.2021 21:03	U	1
Total BTEX		<0.000343	0.00199	0.000343	mg/kg	01.20.2021 21:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.20.2021 21:03	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.20.2021 21:03	

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WL Well 41

Sample Id: **SB-3-S-1-2-210114**
Matrix: Soil
Date Received:01.15.2021 16:58
Lab Sample Id: 684988-008
Date Collected: 01.14.2021 13:15

Analytical Method: Chloride by EPA 300
Prep Method: E300P
Tech: CHE
Analyst: CHE
Seq Number: 3148186
Date Prep: 01.18.2021 16:30
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1110**	24.9	4.27	mg/kg	01.19.2021 00:48		5

Analytical Method: TPH By SW8015 Mod
Prep Method: SW8015P
Tech: DVM
Analyst: ARM
Seq Number: 3148362
Date Prep: 01.19.2021 16:00
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**16.9**	49.9	15.0	mg/kg	01.19.2021 18:10	J	1
Diesel Range Organics (DRO)	C10C28DRO	**56.0**	49.9	15.0	mg/kg	01.19.2021 18:10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**22.2**	49.9	15.0	mg/kg	01.19.2021 18:10	J	1
Total TPH	PHC635	**95.1**	49.9	15.0	mg/kg	01.19.2021 18:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	01.19.2021 18:10	
o-Terphenyl	84-15-1	78	%	70-130	01.19.2021 18:10	

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WL Well 41

Sample Id:	**SB-3-S-1-2-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-008	Date Collected:	01.14.2021 13:15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000385	0.00200	0.000385	mg/kg	01.20.2021 21:23	U	1
Toluene	108-88-3	<0.000456	0.00200	0.000456	mg/kg	01.20.2021 21:23	U	1
Ethylbenzene	100-41-4	<0.000565	0.00200	0.000565	mg/kg	01.20.2021 21:23	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00400	0.00101	mg/kg	01.20.2021 21:23	U	1
o-Xylene	95-47-6	<0.000344	0.00200	0.000344	mg/kg	01.20.2021 21:23	U	1
Total Xylenes	1330-20-7	<0.000344	0.00200	0.000344	mg/kg	01.20.2021 21:23	U	1
Total BTEX		<0.000344	0.00200	0.000344	mg/kg	01.20.2021 21:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.20.2021 21:23	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.20.2021 21:23	

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WL Well 41

Sample Id: **SB-4-S-0-.5-210114**
Lab Sample Id: 684988-009

Matrix: Soil
Date Collected: 01.14.2021 14:27

Date Received:01.15.2021 16:58

Analytical Method: Chloride by EPA 300
Tech: CHE
Analyst: CHE
Seq Number: 3148186

Date Prep: 01.18.2021 16:30

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.2**	5.04	0.865	mg/kg	01.19.2021 00:53		1

Analytical Method: TPH By SW8015 Mod
Tech: DVM
Analyst: ARM
Seq Number: 3148362

Date Prep: 01.19.2021 16:00

Prep Method: SW8015P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	49.9	15.0	mg/kg	01.19.2021 18:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	**27.0**	49.9	15.0	mg/kg	01.19.2021 18:29	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**15.0**	49.9	15.0	mg/kg	01.19.2021 18:29	J	1
Total TPH	PHC635	**42.0**	49.9	15.0	mg/kg	01.19.2021 18:29	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	01.19.2021 18:29	
o-Terphenyl	84-15-1	78	%	70-130	01.19.2021 18:29	

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WL Well 41

Sample Id:	**SB-4-S-0-.5-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-009	Date Collected:	01.14.2021 14:27		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000387	0.00201	0.000387	mg/kg	01.20.2021 21:44	U	1
Toluene	108-88-3	<0.000458	0.00201	0.000458	mg/kg	01.20.2021 21:44	U	1
Ethylbenzene	100-41-4	<0.000568	0.00201	0.000568	mg/kg	01.20.2021 21:44	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00402	0.00102	mg/kg	01.20.2021 21:44	U	1
o-Xylene	95-47-6	<0.000346	0.00201	0.000346	mg/kg	01.20.2021 21:44	U	1
Total Xylenes	1330-20-7	<0.000346	0.00201	0.000346	mg/kg	01.20.2021 21:44	U	1
Total BTEX		<0.000346	0.00201	0.000346	mg/kg	01.20.2021 21:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.20.2021 21:44	
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.20.2021 21:44	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-4-S-1-2-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-010	Date Collected:	01.14.2021 15:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.18.2021 16:30	% Moisture:	
Seq Number:	3148186			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.06**	5.00	0.858	mg/kg	01.19.2021 00:58		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.19.2021 16:00	% Moisture:	
Seq Number:	3148362			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**16.0**	50.0	15.0	mg/kg	01.19.2021 18:48	J	1
Diesel Range Organics (DRO)	C10C28DRO	**139**	50.0	15.0	mg/kg	01.19.2021 18:48		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**80.9**	50.0	15.0	mg/kg	01.19.2021 18:48		1
Total TPH	PHC635	**236**	50.0	15.0	mg/kg	01.19.2021 18:48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	01.19.2021 18:48	
o-Terphenyl	84-15-1	75	%	70-130	01.19.2021 18:48	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-4-S-1-2-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-010	Date Collected:	01.14.2021 15:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000386	0.00200	0.000386	mg/kg	01.20.2021 22:04	U	1
Toluene	108-88-3	<0.000457	0.00200	0.000457	mg/kg	01.20.2021 22:04	U	1
Ethylbenzene	100-41-4	<0.000566	0.00200	0.000566	mg/kg	01.20.2021 22:04	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00401	0.00102	mg/kg	01.20.2021 22:04	U	1
o-Xylene	95-47-6	<0.000345	0.00200	0.000345	mg/kg	01.20.2021 22:04	U	1
Total Xylenes	1330-20-7	<0.000345	0.00200	0.000345	mg/kg	01.20.2021 22:04	U	1
Total BTEX		<0.000345	0.00200	0.000345	mg/kg	01.20.2021 22:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.20.2021 22:04	
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.20.2021 22:04	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **SB-4-SD-1-2-210114**
Matrix: Soil
Date Received:01.15.2021 16:58
Lab Sample Id: 684988-011
Date Collected: 01.14.2021 00:00

Analytical Method: Chloride by EPA 300
Prep Method: E300P
Tech: CHE
Analyst: CHE
Seq Number: 3148186
Date Prep: 01.18.2021 16:30
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.97**	4.99	0.857	mg/kg	01.19.2021 01:04		1

Analytical Method: TPH By SW8015 Mod
Prep Method: SW8015P
Tech: DVM
Analyst: ARM
Seq Number: 3148362
Date Prep: 01.19.2021 16:00
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 19:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	**125**	50.0	15.0	mg/kg	01.19.2021 19:26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**69.8**	50.0	15.0	mg/kg	01.19.2021 19:26		1
Total TPH	PHC635	**195**	50.0	15.0	mg/kg	01.19.2021 19:26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	01.19.2021 19:26	
o-Terphenyl	84-15-1	78	%	70-130	01.19.2021 19:26	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-4-SD-1-2-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-011	Date Collected:	01.14.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000389	0.00202	0.000389	mg/kg	01.20.2021 22:25	U	1
Toluene	108-88-3	<0.000460	0.00202	0.000460	mg/kg	01.20.2021 22:25	U	1
Ethylbenzene	100-41-4	<0.000570	0.00202	0.000570	mg/kg	01.20.2021 22:25	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00404	0.00102	mg/kg	01.20.2021 22:25	U	1
o-Xylene	95-47-6	<0.000348	0.00202	0.000348	mg/kg	01.20.2021 22:25	U	1
Total Xylenes	1330-20-7	<0.000348	0.00202	0.000348	mg/kg	01.20.2021 22:25	U	1
Total BTEX		<0.000348	0.00202	0.000348	mg/kg	01.20.2021 22:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	01.20.2021 22:25	
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.20.2021 22:25	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-4-S-3-4-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-012	Date Collected:	01.14.2021 15:23		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.18.2021 16:30	% Moisture:	
Seq Number:	3148186			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19.4**	4.95	0.850	mg/kg	01.19.2021 01:09		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.19.2021 16:00	% Moisture:	
Seq Number:	3148362			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**16.8**	50.0	15.0	mg/kg	01.19.2021 19:45	J	1
Diesel Range Organics (DRO)	C10C28DRO	**59.1**	50.0	15.0	mg/kg	01.19.2021 19:45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**39.9**	50.0	15.0	mg/kg	01.19.2021 19:45	J	1
Total TPH	PHC635	**116**	50.0	15.0	mg/kg	01.19.2021 19:45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	01.19.2021 19:45	
o-Terphenyl	84-15-1	77	%	70-130	01.19.2021 19:45	

Certificate of Analytical Results 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-4-S-3-4-210114**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684988-012	Date Collected:	01.14.2021 15:23		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000383	0.00199	0.000383	mg/kg	01.20.2021 22:45	U	1
Toluene	108-88-3	<0.000453	0.00199	0.000453	mg/kg	01.20.2021 22:45	U	1
Ethylbenzene	100-41-4	<0.000561	0.00199	0.000561	mg/kg	01.20.2021 22:45	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00398	0.00101	mg/kg	01.20.2021 22:45	U	1
o-Xylene	95-47-6	<0.000342	0.00199	0.000342	mg/kg	01.20.2021 22:45	U	1
Total Xylenes	1330-20-7	<0.000342	0.00199	0.000342	mg/kg	01.20.2021 22:45	U	1
Total BTEX		<0.000342	0.00199	0.000342	mg/kg	01.20.2021 22:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	01.20.2021 22:45	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.20.2021 22:45	

Blank Summary 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719449-1-BLK** Matrix: SOLID

Lab Sample Id: **7719449-1-BLK**

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.18.2021 16:30

Seq Number: 3148186

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	01.18.2021 22:35	U	1

Blank Summary 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719549-1-BLK** Matrix: SOLID

Lab Sample Id: **7719549-1-BLK**

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.19.2021 16:00

Seq Number: 3148362

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 14:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.19.2021 14:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 14:28	U	1

Blank Summary 684988

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719646-1-BLK** Matrix: SOLID

Lab Sample Id: **7719646-1-BLK**

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 01.20.2021 10:00

Seq Number: 3148435

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000385	0.00200	0.000385	mg/kg	01.20.2021 15:32	U	1
Toluene	108-88-3	<0.000456	0.00200	0.000456	mg/kg	01.20.2021 15:32	U	1
Ethylbenzene	100-41-4	<0.000565	0.00200	0.000565	mg/kg	01.20.2021 15:32	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00400	0.00101	mg/kg	01.20.2021 15:32	U	1
o-Xylene	95-47-6	<0.000344	0.00200	0.000344	mg/kg	01.20.2021 15:32	U	1

Form 2 - Surrogate Recoveries

Project Name: WL Well 41

Report Date: 02222021

Work Orders : 684988 **Project ID:** 03064856-0002B

Lab Batch #: 3148435 **Sample:** 7719646-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.20.2021 12:38 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	70-130	
4-Bromofluorobenzene	0.0279	0.0300	93	70-130	

Lab Batch #: 3148435 **Sample:** 7719646-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.20.2021 12:59 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	70-130	
4-Bromofluorobenzene	0.0283	0.0300	94	70-130	

Lab Batch #: 3148435 **Sample:** 684987-013 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.20.2021 14:13 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0296	0.0300	99	70-130	

Lab Batch #: 3148435 **Sample:** 684987-013 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.20.2021 14:34 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	70-130	
4-Bromofluorobenzene	0.0286	0.0300	95	70-130	

Lab Batch #: 3148435 **Sample:** 7719646-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.20.2021 15:32 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	70-130	
4-Bromofluorobenzene	0.0302	0.0300	101	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: WL Well 41

Report Date: 02222021

Work Orders : 684988 **Project ID:** 03064856-0002B

Lab Batch #: 3148362 **Sample:** 7719549-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.19.2021 14:28 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.1	100	70	70-130	
o-Terphenyl	40.4	50.0	81	70-130	

Lab Batch #: 3148362 **Sample:** 7719549-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.19.2021 14:47 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.4	100	80	70-130	
o-Terphenyl	38.9	50.0	78	70-130	

Lab Batch #: 3148362 **Sample:** 7719549-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.19.2021 15:05 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.6	100	85	70-130	
o-Terphenyl	40.9	50.0	82	70-130	

Lab Batch #: 3148362 **Sample:** 684988-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.19.2021 15:42 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.7	99.7	87	70-130	
o-Terphenyl	40.8	49.9	82	70-130	

Lab Batch #: 3148362 **Sample:** 684988-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.19.2021 16:01 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.1	99.6	85	70-130	
o-Terphenyl	41.5	49.8	83	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

QC Summary 684988

Arcadis U.S., Inc

WL Well 41

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148186 — Matrix: Solid — Date Prep: 01.18.2021
MB Sample Id: 7719449-1-BLK — LCS Sample Id: 7719449-1-BKS — LCSD Sample Id: 7719449-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	256	102	258	103	90-110	1	20	mg/kg	01.18.2021 22:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148186 — Matrix: Soil — Date Prep: 01.18.2021
Parent Sample Id: 684987-012 — MS Sample Id: 684987-012 S — MSD Sample Id: 684987-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	481	249	713	93	712	93	90-110	0	20	mg/kg	01.18.2021 22:56	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148186 — Matrix: Soil — Date Prep: 01.18.2021
Parent Sample Id: 684988-004 — MS Sample Id: 684988-004 S — MSD Sample Id: 684988-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6150	5050	11300	102	11300	102	90-110	0	20	mg/kg	01.19.2021 00:10	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148362 — Matrix: Solid — Date Prep: 01.19.2021
MB Sample Id: 7719549-1-BLK — LCS Sample Id: 7719549-1-BKS — LCSD Sample Id: 7719549-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	854	85	871	87	70-130	2	20	mg/kg	01.19.2021 14:47	
Diesel Range Organics (DRO)	<15.0	1000	863	86	880	88	70-130	2	20	mg/kg	01.19.2021 14:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	70		80		85		70-130	%	01.19.2021 14:47
o-Terphenyl	81		78		82		70-130	%	01.19.2021 14:47

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148362 — Matrix: Solid — Date Prep: 01.19.2021
MB Sample Id: 7719549-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<15.0	mg/kg	01.19.2021 14:28	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 684988

Arcadis U.S., Inc

WL Well 41

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3148362 Matrix: Soil Date Prep: 01.19.2021
Parent Sample Id: 684988-001 MS Sample Id: 684988-001 S MSD Sample Id: 684988-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	803	81	809	81	70-130	1	20	mg/kg	01.19.2021 15:42	
Diesel Range Organics (DRO)	<15.0	997	885	89	891	89	70-130	1	20	mg/kg	01.19.2021 15:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	87		85		70-130	%	01.19.2021 15:42
o-Terphenyl	82		83		70-130	%	01.19.2021 15:42

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3148435 Matrix: Solid Date Prep: 01.20.2021
MB Sample Id: 7719646-1-BLK LCS Sample Id: 7719646-1-BKS LCSD Sample Id: 7719646-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.128	128	0.128	128	70-130	0	35	mg/kg	01.20.2021 12:38	
Toluene	<0.000456	0.100	0.116	116	0.117	117	70-130	1	35	mg/kg	01.20.2021 12:38	
Ethylbenzene	<0.000565	0.100	0.118	118	0.119	119	70-130	1	35	mg/kg	01.20.2021 12:38	
m,p-Xylenes	<0.00101	0.200	0.234	117	0.237	119	70-130	1	35	mg/kg	01.20.2021 12:38	
o-Xylene	<0.000344	0.100	0.111	111	0.113	113	70-130	2	35	mg/kg	01.20.2021 12:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		105		104		70-130	%	01.20.2021 12:38
4-Bromofluorobenzene	101		93		94		70-130	%	01.20.2021 12:38

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3148435 Matrix: Soil Date Prep: 01.20.2021
Parent Sample Id: 684987-013 MS Sample Id: 684987-013 S MSD Sample Id: 684987-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.111	111	0.116	116	70-130	4	35	mg/kg	01.20.2021 14:13	
Toluene	<0.000456	0.100	0.0996	100	0.103	103	70-130	3	35	mg/kg	01.20.2021 14:13	
Ethylbenzene	<0.000565	0.100	0.101	101	0.105	105	70-130	4	35	mg/kg	01.20.2021 14:13	
m,p-Xylenes	<0.00101	0.200	0.201	101	0.206	103	70-130	2	35	mg/kg	01.20.2021 14:13	
o-Xylene	<0.000344	0.100	0.0949	95	0.0975	98	70-130	3	35	mg/kg	01.20.2021 14:13	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		105		70-130	%	01.20.2021 14:13
4-Bromofluorobenzene	99		95		70-130	%	01.20.2021 14:13

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Eurofins Xenco
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record

6844988

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-23595-8666.1
Client Contact: Motgan Jordan	Phone: 619 881 8792	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 1 of 2
Company: ARCADIS U.S., Inc.		Analysis Requested		Job #:
Address: 1717 W 6th Street. Suite 210	Due Date Requested:			Preservation Codes:
City: Austin	TAT Requested (days): Std			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: TX, 78703				
Phone: 281 604 9437	PO #:			Other:
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: 30064856-0002B	Project #: 30064862 -0002B			
Site: WL Well 41	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)	8015_GRO/ DRO/ ORO	300 - Chloride	8021- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SB-1-S-0-.5-210114	1/14/21	1126	G	Solid							
SB-1-S-1-2-210114		1134		Solid							
SB-1-S-3-3.25-210114		1145		Solid							
SB-2-S-0-.5-210114		1203		Solid							
SB-2-S-1-2-210114		1214		Solid							
SB-2-S-3-3.25-210114		1222		Solid							
SB-3-S-0-.5-210114		1307		Solid							
SB-3-S-1-2-210114		1315		Solid							
SB-4-S-0-.5-210114		1427		Solid							
SB-4-S-1-2-210114		1500		Solid							
SB-4-SD-1-2-210114		—		Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/14/21 1600	Arcadis	Carlos Grajeda	1-14-21 1600	Arcadis
Relinquished by: Carlos Grajeda	Date/Time: 1-15-21 1658	Company Arcadis	Received by:	Date/Time: 1-15-21 1658	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: -.4 / -.9

Received by OCD: 10/23/2024 1:19:31 PM
Final 1.002
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Released to Imaging: 10/30/2024 9:04:02 AM

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Eurofins Xenco
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record

6849488

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-23595-8666.1
Client Contact: Morgan Jordan	Phone: (619 851 8792	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 2 of 2
Company: ARCADIS U.S., Inc.		Analysis Requested		Job #:
Address: 1717 W 6th Street. Suite 210	Due Date Requested: —			Preservation Codes:
City: Austin	TAT Requested (days): std			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: TX, 78703				
Phone: 281 644 9437	PO #:			Other:
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: 30064856-0002B	Project #: 30064862 -0002B			
Site: WL Well 41	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)	8015_GRO/ DRO/ ORO	300 - Chloride	8021- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SB-4-S-3-4-21014	1/14/21	1523	G	Solid			1	1	1	1	
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

1/14/21 QS

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/14/21 1600	Arcadis	Carlos Grajeda	1-14-21 1600	Arcadis
2	Carlos Grajeda	1-15-21 1658	Arcadis		1-15-21 1658	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: -4 / -9

Received by OCD: 10/23/2024 1:19:31 PM
Released to Imaging: 10/30/2024 9:04:02 AM
Final 1.002
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Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Arcadis U.S., Inc

Date/ Time Received: 01.15.2021 04.58.00 PM

Work Order #: 684988

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.9
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 01.18.2021

Brianna Teel

Checklist reviewed by: John Builes Date: 01.21.2021

John Builes

Analytical Report 684989

for

Arcadis U.S., Inc

Project Manager: Morgan Jordan

WL Well 41

30064856-0002B

01.21.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

01.21.2021

Project Manager: **Morgan Jordan**
Arcadis U.S., Inc
1717 W 6th Street, Suite 210
Austin, TX 78703

Reference: Eurofins Xenco, LLC Report No(s): **684989**
WL Well 41
Project Address:

Morgan Jordan:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684989. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684989 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Sachin Kudchadkar
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-7-S-0-.5-210115	S	01.15.2021 12:00		684989-001
SB-7-S-1-2-210115	S	01.15.2021 12:08		684989-002
SB-7-S-3-4-210115	S	01.15.2021 12:14		684989-003
SB-7-S-5-5.5-210115	S	01.15.2021 12:24		684989-004
SB-8-S-0-.5-210115	S	01.15.2021 12:23		684989-005
SB-8-S-1-2-210115	S	01.15.2021 12:37		684989-006
SB-8-S-3-4-210115	S	01.15.2021 12:45		684989-007
SB-5-S-0-.5-210115	S	01.15.2021 10:23		684989-008
SB-6-S-0-.5-210115	S	01.15.2021 10:54		684989-009
SB-6-S-1-2-210115	S	01.15.2021 11:05		684989-010
SB-6-S-3-4-210115	S	01.15.2021 11:10		684989-011
SB-6-S-5-6-210115	S	01.15.2021 11:14		684989-012

CASE NARRATIVE

Client Name: Arcadis U.S., Inc

Project Name: WL Well 41

Project ID: *30064856-0002B*
Work Order Number(s): *684989*

Report Date: *01.21.2021*
Date Received: *01.15.2021*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3148349 Chloride by EPA 300

Lab Sample ID 685064-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference.
Samples in the analytical batch are: 684989-011, -012.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3148362 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 684989-002,684989-008,684989-006,684989-005.

Batch: LBA-3148475 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits Data confirmed by re-analysis. Samples affected are: 7719656-1-BLK,684989-011,684989-010.

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-7-S-0-.5-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-001	Date Collected:	01.15.2021 12:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	01.18.2021 16:30	% Moisture:	
Seq Number:	3148186			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**37.0**	5.03	0.864	mg/kg	01.19.2021 01:14		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.19.2021 16:00	% Moisture:	
Seq Number:	3148362			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	49.9	15.0	mg/kg	01.19.2021 20:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	**20.5**	49.9	15.0	mg/kg	01.19.2021 20:04	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	49.9	15.0	mg/kg	01.19.2021 20:04	U	1
Total TPH	PHC635	**20.5**	49.9	15.0	mg/kg	01.19.2021 20:04	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	01.19.2021 20:04	
o-Terphenyl	84-15-1	78	%	70-130	01.19.2021 20:04	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-7-S-0-.5-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-001	Date Collected:	01.15.2021 12:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000381	0.00198	0.000381	mg/kg	01.20.2021 23:06	U	1
Toluene	108-88-3	<0.000451	0.00198	0.000451	mg/kg	01.20.2021 23:06	U	1
Ethylbenzene	100-41-4	<0.000559	0.00198	0.000559	mg/kg	01.20.2021 23:06	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00396	0.00100	mg/kg	01.20.2021 23:06	U	1
o-Xylene	95-47-6	<0.000341	0.00198	0.000341	mg/kg	01.20.2021 23:06	U	1
Total Xylenes	1330-20-7	<0.000341	0.00198	0.000341	mg/kg	01.20.2021 23:06	U	1
Total BTEX		<0.000341	0.00198	0.000341	mg/kg	01.20.2021 23:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.20.2021 23:06	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.20.2021 23:06	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-7-S-1-2-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-002	Date Collected:	01.15.2021 12:08		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	01.19.2021 10:38	% Moisture:	
Seq Number:	3148368			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.9**	5.02	0.862	mg/kg	01.19.2021 12:41		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.19.2021 16:00	% Moisture:	
Seq Number:	3148362			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 20:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.19.2021 20:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 20:23	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	01.19.2021 20:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	67	%	70-130	01.19.2021 20:23	**
o-Terphenyl	84-15-1	72	%	70-130	01.19.2021 20:23	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-7-S-1-2-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-002	Date Collected:	01.15.2021 12:08		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 10:00	% Moisture:	
Seq Number:	3148435			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000388	0.00202	0.000388	mg/kg	01.20.2021 23:26	U	1
Toluene	108-88-3	<0.000459	0.00202	0.000459	mg/kg	01.20.2021 23:26	U	1
Ethylbenzene	100-41-4	<0.000569	0.00202	0.000569	mg/kg	01.20.2021 23:26	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00403	0.00102	mg/kg	01.20.2021 23:26	U	1
o-Xylene	95-47-6	<0.000347	0.00202	0.000347	mg/kg	01.20.2021 23:26	U	1
Total Xylenes	1330-20-7	<0.000347	0.00202	0.000347	mg/kg	01.20.2021 23:26	U	1
Total BTEX		<0.000347	0.00202	0.000347	mg/kg	01.20.2021 23:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.20.2021 23:26	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.20.2021 23:26	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-7-S-3-4-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-003	Date Collected:	01.15.2021 12:14		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	01.19.2021 10:38	% Moisture:	
Seq Number:	3148368			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**300**	5.03	0.864	mg/kg	01.19.2021 12:46		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.19.2021 16:00	% Moisture:	
Seq Number:	3148362			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	49.9	15.0	mg/kg	01.19.2021 20:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	49.9	15.0	mg/kg	01.19.2021 20:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	49.9	15.0	mg/kg	01.19.2021 20:42	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	01.19.2021 20:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	01.19.2021 20:42	
o-Terphenyl	84-15-1	75	%	70-130	01.19.2021 20:42	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-7-S-3-4-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-003	Date Collected:	01.15.2021 12:14		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000383	0.00199	0.000383	mg/kg	01.21.2021 02:49	U	1
Toluene	108-88-3	<0.000453	0.00199	0.000453	mg/kg	01.21.2021 02:49	U	1
Ethylbenzene	100-41-4	<0.000561	0.00199	0.000561	mg/kg	01.21.2021 02:49	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00398	0.00101	mg/kg	01.21.2021 02:49	U	1
o-Xylene	95-47-6	<0.000342	0.00199	0.000342	mg/kg	01.21.2021 02:49	U	1
Total Xylenes	1330-20-7	<0.000342	0.00199	0.000342	mg/kg	01.21.2021 02:49	U	1
Total BTEX		<0.000342	0.00199	0.000342	mg/kg	01.21.2021 02:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	01.21.2021 02:49	
4-Bromofluorobenzene	460-00-4	112	%	70-130	01.21.2021 02:49	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-7-S-5-5.5-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-004	Date Collected:	01.15.2021 12:24		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	01.19.2021 10:38	% Moisture:	
Seq Number:	3148368			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**832**	4.96	0.852	mg/kg	01.19.2021 13:02		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.19.2021 16:00	% Moisture:	
Seq Number:	3148362			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	49.8	14.9	mg/kg	01.19.2021 21:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	49.8	14.9	mg/kg	01.19.2021 21:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	49.8	14.9	mg/kg	01.19.2021 21:01	U	1
Total TPH	PHC635	<14.9	49.8	14.9	mg/kg	01.19.2021 21:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	01.19.2021 21:01	
o-Terphenyl	84-15-1	77	%	70-130	01.19.2021 21:01	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-7-S-5-5.5-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-004	Date Collected:	01.15.2021 12:24		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000384	0.00200	0.000384	mg/kg	01.21.2021 03:10	U	1
Toluene	108-88-3	<0.000455	0.00200	0.000455	mg/kg	01.21.2021 03:10	U	1
Ethylbenzene	100-41-4	<0.000564	0.00200	0.000564	mg/kg	01.21.2021 03:10	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00399	0.00101	mg/kg	01.21.2021 03:10	U	1
o-Xylene	95-47-6	<0.000344	0.00200	0.000344	mg/kg	01.21.2021 03:10	U	1
Total Xylenes	1330-20-7	<0.000344	0.00200	0.000344	mg/kg	01.21.2021 03:10	U	1
Total BTEX		<0.000344	0.00200	0.000344	mg/kg	01.21.2021 03:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	01.21.2021 03:10	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.21.2021 03:10	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-8-S-0-.5-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-005	Date Collected:	01.15.2021 12:23		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	01.19.2021 10:38	% Moisture:	
Seq Number:	3148368			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**69.4**	4.99	0.857	mg/kg	01.19.2021 13:07		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.19.2021 16:00	% Moisture:	
Seq Number:	3148362			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 21:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.19.2021 21:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 21:21	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	01.19.2021 21:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	65	%	70-130	01.19.2021 21:21	**
o-Terphenyl	84-15-1	71	%	70-130	01.19.2021 21:21	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-8-S-0-.5-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-005	Date Collected:	01.15.2021 12:23		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000382	0.00198	0.000382	mg/kg	01.21.2021 03:30	U	1
Toluene	108-88-3	<0.000452	0.00198	0.000452	mg/kg	01.21.2021 03:30	U	1
Ethylbenzene	100-41-4	<0.000560	0.00198	0.000560	mg/kg	01.21.2021 03:30	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00397	0.00101	mg/kg	01.21.2021 03:30	U	1
o-Xylene	95-47-6	<0.000342	0.00198	0.000342	mg/kg	01.21.2021 03:30	U	1
Total Xylenes	1330-20-7	<0.000342	0.00198	0.000342	mg/kg	01.21.2021 03:30	U	1
Total BTEX		<0.000342	0.00198	0.000342	mg/kg	01.21.2021 03:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.21.2021 03:30	
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.21.2021 03:30	

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WL Well 41

Sample Id: **SB-8-S-1-2-210115**
Matrix: Soil
Date Received:01.15.2021 16:58
Lab Sample Id: 684989-006
Date Collected: 01.15.2021 12:37

Analytical Method: Chloride by EPA 300
Prep Method: E300P
Tech: SPC
Analyst: SPC
Seq Number: 3148368
Date Prep: 01.19.2021 10:38
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**66.4**	4.98	0.855	mg/kg	01.19.2021 13:12		1

Analytical Method: TPH By SW8015 Mod
Prep Method: SW8015P
Tech: DVM
Analyst: ARM
Seq Number: 3148362
Date Prep: 01.19.2021 16:00
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 21:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.19.2021 21:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 21:40	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	01.19.2021 21:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	68	%	70-130	01.19.2021 21:40	**
o-Terphenyl	84-15-1	73	%	70-130	01.19.2021 21:40	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-8-S-1-2-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-006	Date Collected:	01.15.2021 12:37		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000383	0.00199	0.000383	mg/kg	01.21.2021 03:51	U	1
Toluene	108-88-3	<0.000453	0.00199	0.000453	mg/kg	01.21.2021 03:51	U	1
Ethylbenzene	100-41-4	<0.000561	0.00199	0.000561	mg/kg	01.21.2021 03:51	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00398	0.00101	mg/kg	01.21.2021 03:51	U	1
o-Xylene	95-47-6	<0.000342	0.00199	0.000342	mg/kg	01.21.2021 03:51	U	1
Total Xylenes	1330-20-7	<0.000342	0.00199	0.000342	mg/kg	01.21.2021 03:51	U	1
Total BTEX		<0.000342	0.00199	0.000342	mg/kg	01.21.2021 03:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	01.21.2021 03:51	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.21.2021 03:51	

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WL Well 41

Sample Id: **SB-8-S-3-4-210115** Matrix: Soil Date Received:01.15.2021 16:58

Lab Sample Id: 684989-007 Date Collected: 01.15.2021 12:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 01.19.2021 10:38 % Moisture:

Seq Number: 3148368 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**374**	5.01	0.860	mg/kg	01.19.2021 13:18		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.19.2021 16:00 % Moisture:

Seq Number: 3148362 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	49.9	15.0	mg/kg	01.19.2021 21:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	**17.1**	49.9	15.0	mg/kg	01.19.2021 21:59	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	49.9	15.0	mg/kg	01.19.2021 21:59	U	1
Total TPH	PHC635	**17.1**	49.9	15.0	mg/kg	01.19.2021 21:59	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	01.19.2021 21:59	
o-Terphenyl	84-15-1	78	%	70-130	01.19.2021 21:59	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-8-S-3-4-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-007	Date Collected:	01.15.2021 12:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000381	0.00198	0.000381	mg/kg	01.21.2021 04:11	U	1
Toluene	108-88-3	<0.000451	0.00198	0.000451	mg/kg	01.21.2021 04:11	U	1
Ethylbenzene	100-41-4	<0.000559	0.00198	0.000559	mg/kg	01.21.2021 04:11	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00396	0.00100	mg/kg	01.21.2021 04:11	U	1
o-Xylene	95-47-6	<0.000341	0.00198	0.000341	mg/kg	01.21.2021 04:11	U	1
Total Xylenes	1330-20-7	<0.000341	0.00198	0.000341	mg/kg	01.21.2021 04:11	U	1
Total BTEX		<0.000341	0.00198	0.000341	mg/kg	01.21.2021 04:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	01.21.2021 04:11	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.21.2021 04:11	

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WL Well 41

Sample Id: **SB-5-S-0-.5-210115** Matrix: Soil Date Received:01.15.2021 16:58

Lab Sample Id: 684989-008 Date Collected: 01.15.2021 10:23

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 01.19.2021 10:38 % Moisture:

Seq Number: 3148368 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2710**	24.8	4.26	mg/kg	01.19.2021 13:23		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.19.2021 16:00 % Moisture:

Seq Number: 3148362 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 22:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	**39.9**	50.0	15.0	mg/kg	01.19.2021 22:18	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**16.9**	50.0	15.0	mg/kg	01.19.2021 22:18	J	1
Total TPH	PHC635	**56.8**	50.0	15.0	mg/kg	01.19.2021 22:18		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	66	%	70-130	01.19.2021 22:18	**
o-Terphenyl	84-15-1	72	%	70-130	01.19.2021 22:18	

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Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-5-S-0-.5-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-008	Date Collected:	01.15.2021 10:23		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000389	0.00202	0.000389	mg/kg	01.21.2021 04:32	U	1
Toluene	108-88-3	<0.000460	0.00202	0.000460	mg/kg	01.21.2021 04:32	U	1
Ethylbenzene	100-41-4	<0.000570	0.00202	0.000570	mg/kg	01.21.2021 04:32	U	1
m,p-Xylenes	179601-23-1	<0.00102	0.00404	0.00102	mg/kg	01.21.2021 04:32	U	1
o-Xylene	95-47-6	<0.000348	0.00202	0.000348	mg/kg	01.21.2021 04:32	U	1
Total Xylenes	1330-20-7	<0.000348	0.00202	0.000348	mg/kg	01.21.2021 04:32	U	1
Total BTEX		<0.000348	0.00202	0.000348	mg/kg	01.21.2021 04:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	01.21.2021 04:32	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.21.2021 04:32	

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WL Well 41

Sample Id: **SB-6-S-0-.5-210115**
Matrix: Soil
Date Received:01.15.2021 16:58
Lab Sample Id: 684989-009
Date Collected: 01.15.2021 10:54

Analytical Method: Chloride by EPA 300
Prep Method: E300P
Tech: SPC
Analyst: SPC
Seq Number: 3148368
Date Prep: 01.19.2021 10:38
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.6**	5.00	0.858	mg/kg	01.19.2021 13:28		1

Analytical Method: TPH By SW8015 Mod
Prep Method: SW8015P
Tech: DVM
Analyst: ARM
Seq Number: 3148361
Date Prep: 01.19.2021 08:00
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 12:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	**116**	50.0	15.0	mg/kg	01.19.2021 12:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**76.6**	50.0	15.0	mg/kg	01.19.2021 12:55		1
Total TPH	PHC635	**193**	50.0	15.0	mg/kg	01.19.2021 12:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	01.19.2021 12:55	
o-Terphenyl	84-15-1	79	%	70-130	01.19.2021 12:55	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-6-S-0-.5-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-009	Date Collected:	01.15.2021 10:54		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000383	0.00199	0.000383	mg/kg	01.21.2021 04:52	U	1
Toluene	108-88-3	<0.000453	0.00199	0.000453	mg/kg	01.21.2021 04:52	U	1
Ethylbenzene	100-41-4	<0.000561	0.00199	0.000561	mg/kg	01.21.2021 04:52	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00398	0.00101	mg/kg	01.21.2021 04:52	U	1
o-Xylene	95-47-6	<0.000342	0.00199	0.000342	mg/kg	01.21.2021 04:52	U	1
Total Xylenes	1330-20-7	<0.000342	0.00199	0.000342	mg/kg	01.21.2021 04:52	U	1
Total BTEX		<0.000342	0.00199	0.000342	mg/kg	01.21.2021 04:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.21.2021 04:52	
4-Bromofluorobenzene	460-00-4	110	%	70-130	01.21.2021 04:52	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-6-S-1-2-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-010	Date Collected:	01.15.2021 11:05		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	01.19.2021 10:38	% Moisture:	
Seq Number:	3148368			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.21**	5.03	0.864	mg/kg	01.19.2021 13:33		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.20.2021 11:00	% Moisture:	
Seq Number:	3148475			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	49.8	14.9	mg/kg	01.20.2021 18:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	49.8	14.9	mg/kg	01.20.2021 18:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	49.8	14.9	mg/kg	01.20.2021 18:41	U	1
Total TPH	PHC635	<14.9	49.8	14.9	mg/kg	01.20.2021 18:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	68	%	70-130	01.20.2021 18:41	**
o-Terphenyl	84-15-1	79	%	70-130	01.20.2021 18:41	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-6-S-1-2-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-010	Date Collected:	01.15.2021 11:05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000385	0.00200	0.000385	mg/kg	01.21.2021 05:12	U	1
Toluene	108-88-3	<0.000456	0.00200	0.000456	mg/kg	01.21.2021 05:12	U	1
Ethylbenzene	100-41-4	<0.000565	0.00200	0.000565	mg/kg	01.21.2021 05:12	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00400	0.00101	mg/kg	01.21.2021 05:12	U	1
o-Xylene	95-47-6	<0.000344	0.00200	0.000344	mg/kg	01.21.2021 05:12	U	1
Total Xylenes	1330-20-7	<0.000344	0.00200	0.000344	mg/kg	01.21.2021 05:12	U	1
Total BTEX		<0.000344	0.00200	0.000344	mg/kg	01.21.2021 05:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	01.21.2021 05:12	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.21.2021 05:12	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **SB-6-S-3-4-210115**
Matrix: Soil
Date Received:01.15.2021 16:58
Lab Sample Id: 684989-011
Date Collected: 01.15.2021 11:10

Analytical Method: Chloride by EPA 300
Prep Method: E300P
Tech: SPC
Analyst: SPC
Seq Number: 3148349
Date Prep: 01.19.2021 11:25
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**36.5**	4.96	0.852	mg/kg	01.20.2021 09:56		1

Analytical Method: TPH By SW8015 Mod
Prep Method: SW8015P
Tech: DVM
Analyst: ARM
Seq Number: 3148475
Date Prep: 01.20.2021 11:00
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**16.4**	50.0	15.0	mg/kg	01.20.2021 19:00	J	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.20.2021 19:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.20.2021 19:00	U	1
Total TPH	PHC635	**16.4**	50.0	15.0	mg/kg	01.20.2021 19:00	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	65	%	70-130	01.20.2021 19:00	**
o-Terphenyl	84-15-1	76	%	70-130	01.20.2021 19:00	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-6-S-3-4-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-011	Date Collected:	01.15.2021 11:10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000384	0.00200	0.000384	mg/kg	01.21.2021 05:33	U	1
Toluene	108-88-3	<0.000455	0.00200	0.000455	mg/kg	01.21.2021 05:33	U	1
Ethylbenzene	100-41-4	<0.000564	0.00200	0.000564	mg/kg	01.21.2021 05:33	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00399	0.00101	mg/kg	01.21.2021 05:33	U	1
o-Xylene	95-47-6	<0.000344	0.00200	0.000344	mg/kg	01.21.2021 05:33	U	1
Total Xylenes	1330-20-7	<0.000344	0.00200	0.000344	mg/kg	01.21.2021 05:33	U	1
Total BTEX		<0.000344	0.00200	0.000344	mg/kg	01.21.2021 05:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	01.21.2021 05:33	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.21.2021 05:33	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-6-S-5-6-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-012	Date Collected:	01.15.2021 11:14		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	01.19.2021 11:25	% Moisture:	
Seq Number:	3148349			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**80.6**	4.99	0.857	mg/kg	01.20.2021 09:34	X	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	01.20.2021 11:00	% Moisture:	
Seq Number:	3148475			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.20.2021 19:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.20.2021 19:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.20.2021 19:19	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	01.20.2021 19:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	01.20.2021 19:19	
o-Terphenyl	84-15-1	94	%	70-130	01.20.2021 19:19	

Certificate of Analytical Results 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id:	**SB-6-S-5-6-210115**	Matrix:	Soil	Date Received:	01.15.2021 16:58
Lab Sample Id:	684989-012	Date Collected:	01.15.2021 11:14		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	01.20.2021 16:30	% Moisture:	
Seq Number:	3148440			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000382	0.00198	0.000382	mg/kg	01.21.2021 05:53	U	1
Toluene	108-88-3	<0.000452	0.00198	0.000452	mg/kg	01.21.2021 05:53	U	1
Ethylbenzene	100-41-4	<0.000560	0.00198	0.000560	mg/kg	01.21.2021 05:53	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00397	0.00101	mg/kg	01.21.2021 05:53	U	1
o-Xylene	95-47-6	<0.000342	0.00198	0.000342	mg/kg	01.21.2021 05:53	U	1
Total Xylenes	1330-20-7	<0.000342	0.00198	0.000342	mg/kg	01.21.2021 05:53	U	1
Total BTEX		<0.000342	0.00198	0.000342	mg/kg	01.21.2021 05:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	01.21.2021 05:53	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.21.2021 05:53	

Blank Summary 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719449-1-BLK** Matrix: SOLID

Lab Sample Id: **7719449-1-BLK**

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 01.18.2021 16:30

Seq Number: 3148186

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	01.18.2021 22:35	U	1

Blank Summary 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719484-1-BLK** Matrix: SOLID

Lab Sample Id: **7719484-1-BLK**

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 01.19.2021 10:38

Seq Number: 3148368

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	01.19.2021 10:56	U	1

Blank Summary 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719489-1-BLK** Matrix: SOLID

Lab Sample Id: **7719489-1-BLK**

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 01.19.2021 11:25

Seq Number: 3148349

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	01.20.2021 09:12	U	1

Blank Summary 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719548-1-BLK** Matrix: SOLID

Lab Sample Id: **7719548-1-BLK**

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.19.2021 08:00

Seq Number: 3148361

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 08:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.19.2021 08:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 08:13	U	1

Blank Summary 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719549-1-BLK** Matrix: SOLID

Lab Sample Id: **7719549-1-BLK**

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.19.2021 16:00

Seq Number: 3148362

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.19.2021 14:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.19.2021 14:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.19.2021 14:28	U	1

Blank Summary 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719646-1-BLK** Matrix: SOLID

Lab Sample Id: **7719646-1-BLK**

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 01.20.2021 10:00

Seq Number: 3148435

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000385	0.00200	0.000385	mg/kg	01.20.2021 15:32	U	1
Toluene	108-88-3	<0.000456	0.00200	0.000456	mg/kg	01.20.2021 15:32	U	1
Ethylbenzene	100-41-4	<0.000565	0.00200	0.000565	mg/kg	01.20.2021 15:32	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00400	0.00101	mg/kg	01.20.2021 15:32	U	1
o-Xylene	95-47-6	<0.000344	0.00200	0.000344	mg/kg	01.20.2021 15:32	U	1

Blank Summary 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719647-1-BLK** Matrix: SOLID

Lab Sample Id: **7719647-1-BLK**

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 01.20.2021 16:30

Seq Number: 3148440

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000385	0.00200	0.000385	mg/kg	01.21.2021 02:28	U	1
Toluene	108-88-3	<0.000456	0.00200	0.000456	mg/kg	01.21.2021 02:28	U	1
Ethylbenzene	100-41-4	<0.000565	0.00200	0.000565	mg/kg	01.21.2021 02:28	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00400	0.00101	mg/kg	01.21.2021 02:28	U	1
o-Xylene	95-47-6	<0.000344	0.00200	0.000344	mg/kg	01.21.2021 02:28	U	1

Blank Summary 684989

Arcadis U.S., Inc, Austin, TX

WL Well 41

Sample Id: **7719656-1-BLK** Matrix: SOLID

Lab Sample Id: **7719656-1-BLK**

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.20.2021 11:00

Seq Number: 3148475

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	01.20.2021 11:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	01.20.2021 11:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	01.20.2021 11:47	U	1

Form 2 - Surrogate Recoveries

Project Name: WL Well 41

Report Date: 01212021

Work Orders : 684989 **Project ID:** 30064856-0002B

Lab Batch #: 3148435 **Sample:** 7719646-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.20.2021 12:38 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	70-130	
4-Bromofluorobenzene	0.0279	0.0300	93	70-130	

Lab Batch #: 3148435 **Sample:** 7719646-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.20.2021 12:59 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	70-130	
4-Bromofluorobenzene	0.0283	0.0300	94	70-130	

Lab Batch #: 3148435 **Sample:** 684987-013 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.20.2021 14:13 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0296	0.0300	99	70-130	

Lab Batch #: 3148435 **Sample:** 684987-013 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.20.2021 14:34 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	70-130	
4-Bromofluorobenzene	0.0286	0.0300	95	70-130	

Lab Batch #: 3148435 **Sample:** 7719646-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.20.2021 15:32 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	70-130	
4-Bromofluorobenzene	0.0302	0.0300	101	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: WL Well 41

Report Date: 01212021

Work Orders : 684989 **Project ID:** 30064856-0002B

Lab Batch #: 3148440 **Sample:** 7719647-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.21.2021 00:28 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	70-130	
4-Bromofluorobenzene	0.0323	0.0300	108	70-130	

Lab Batch #: 3148440 **Sample:** 7719647-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.21.2021 00:49 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	70-130	
4-Bromofluorobenzene	0.0280	0.0300	93	70-130	

Lab Batch #: 3148440 **Sample:** 684989-003 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.21.2021 01:09 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	70-130	
4-Bromofluorobenzene	0.0295	0.0300	98	70-130	

Lab Batch #: 3148440 **Sample:** 684989-003 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.21.2021 01:30 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	70-130	
4-Bromofluorobenzene	0.0305	0.0300	102	70-130	

Lab Batch #: 3148440 **Sample:** 7719647-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.21.2021 02:28 **SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	70-130	
4-Bromofluorobenzene	0.0329	0.0300	110	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: WL Well 41

Report Date: 01212021

Work Orders : 684989 **Project ID:** 30064856-0002B

Lab Batch #: 3148361 **Sample:** 7719548-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.19.2021 08:13 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.3	100	70	70-130	
o-Terphenyl	40.9	50.0	82	70-130	

Lab Batch #: 3148361 **Sample:** 7719548-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.19.2021 08:33 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.9	100	87	70-130	
o-Terphenyl	40.1	50.0	80	70-130	

Lab Batch #: 3148361 **Sample:** 7719548-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.19.2021 08:52 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.1	100	90	70-130	
o-Terphenyl	39.4	50.0	79	70-130	

Lab Batch #: 3148361 **Sample:** 684953-041 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.19.2021 09:30 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.9	99.8	93	70-130	
o-Terphenyl	39.2	49.9	79	70-130	

Lab Batch #: 3148361 **Sample:** 684953-041 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.19.2021 09:49 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.8	99.8	86	70-130	
o-Terphenyl	37.5	49.9	75	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: WL Well 41

Report Date: 01212021

Work Orders : 684989 **Project ID:** 30064856-0002B

Lab Batch #: 3148362 **Sample:** 7719549-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.19.2021 14:28 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.1	100	70	70-130	
o-Terphenyl	40.4	50.0	81	70-130	

Lab Batch #: 3148362 **Sample:** 7719549-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.19.2021 14:47 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.4	100	80	70-130	
o-Terphenyl	38.9	50.0	78	70-130	

Lab Batch #: 3148362 **Sample:** 7719549-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.19.2021 15:05 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.6	100	85	70-130	
o-Terphenyl	40.9	50.0	82	70-130	

Lab Batch #: 3148362 **Sample:** 684988-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.19.2021 15:42 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.7	99.7	87	70-130	
o-Terphenyl	40.8	49.9	82	70-130	

Lab Batch #: 3148362 **Sample:** 684988-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.19.2021 16:01 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.1	99.6	85	70-130	
o-Terphenyl	41.5	49.8	83	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: WL Well 41

Report Date: 01212021

Work Orders : 684989 **Project ID:** 30064856-0002B

Lab Batch #: 3148475 **Sample:** 7719656-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.20.2021 11:47 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	60.7	100	61	70-130	**
o-Terphenyl	36.8	50.0	74	70-130	

Lab Batch #: 3148475 **Sample:** 7719656-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.20.2021 12:06 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.4	100	77	70-130	
o-Terphenyl	38.0	50.0	76	70-130	

Lab Batch #: 3148475 **Sample:** 7719656-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01.20.2021 12:25 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.9	100	76	70-130	
o-Terphenyl	36.4	50.0	73	70-130	

Lab Batch #: 3148475 **Sample:** 685285-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.20.2021 13:03 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.3	99.7	91	70-130	
o-Terphenyl	41.4	49.9	83	70-130	

Lab Batch #: 3148475 **Sample:** 685285-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01.20.2021 13:22 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.8	99.9	78	70-130	
o-Terphenyl	36.5	50.0	73	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

QC Summary 684989

Arcadis U.S., Inc

WL Well 41

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148186 — Matrix: Solid — Date Prep: 01.18.2021
MB Sample Id: 7719449-1-BLK — LCS Sample Id: 7719449-1-BKS — LCSD Sample Id: 7719449-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	256	102	258	103	90-110	1	20	mg/kg	01.18.2021 22:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148368 — Matrix: Solid — Date Prep: 01.19.2021
MB Sample Id: 7719484-1-BLK — LCS Sample Id: 7719484-1-BKS — LCSD Sample Id: 7719484-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	253	101	252	101	90-110	0	20	mg/kg	01.19.2021 11:01	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148349 — Matrix: Solid — Date Prep: 01.19.2021
MB Sample Id: 7719489-1-BLK — LCS Sample Id: 7719489-1-BKS — LCSD Sample Id: 7719489-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	258	103	259	104	90-110	0	20	mg/kg	01.20.2021 09:19	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148186 — Matrix: Soil — Date Prep: 01.18.2021
Parent Sample Id: 684987-012 — MS Sample Id: 684987-012 S — MSD Sample Id: 684987-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	481	249	713	93	712	93	90-110	0	20	mg/kg	01.18.2021 22:56	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148186 — Matrix: Soil — Date Prep: 01.18.2021
Parent Sample Id: 684988-004 — MS Sample Id: 684988-004 S — MSD Sample Id: 684988-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6150	5050	11300	102	11300	102	90-110	0	20	mg/kg	01.19.2021 00:10	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148368 — Matrix: Soil — Date Prep: 01.19.2021
Parent Sample Id: 684953-001 — MS Sample Id: 684953-001 S — MSD Sample Id: 684953-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.853	249	248	100	248	100	90-110	0	20	mg/kg	01.19.2021 11:17	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 684989

Arcadis U.S., Inc

WL Well 41

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148368 — Matrix: Soil — Date Prep: 01.19.2021
Parent Sample Id: 684953-011 — MS Sample Id: 684953-011 S — MSD Sample Id: 684953-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.40	252	246	95	245	95	90-110	0	20	mg/kg	01.19.2021 12:31	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148349 — Matrix: Soil — Date Prep: 01.19.2021
Parent Sample Id: 684989-012 — MS Sample Id: 684989-012 S — MSD Sample Id: 684989-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	80.6	250	363	113	344	105	90-110	5	20	mg/kg	01.20.2021 09:41	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3148349 — Matrix: Soil — Date Prep: 01.19.2021
Parent Sample Id: 685064-004 — MS Sample Id: 685064-004 S — MSD Sample Id: 685064-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3050	1260	4450	111	4470	113	90-110	0	20	mg/kg	01.20.2021 11:05	X

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148361 — Matrix: Solid — Date Prep: 01.19.2021
MB Sample Id: 7719548-1-BLK — LCS Sample Id: 7719548-1-BKS — LCSD Sample Id: 7719548-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	811	81	893	89	70-130	10	20	mg/kg	01.19.2021 08:33	
Diesel Range Organics (DRO)	<15.0	1000	888	89	907	91	70-130	2	20	mg/kg	01.19.2021 08:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	70		87		90		70-130	%	01.19.2021 08:33
o-Terphenyl	82		80		79		70-130	%	01.19.2021 08:33

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148362 — Matrix: Solid — Date Prep: 01.19.2021
MB Sample Id: 7719549-1-BLK — LCS Sample Id: 7719549-1-BKS — LCSD Sample Id: 7719549-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	854	85	871	87	70-130	2	20	mg/kg	01.19.2021 14:47	
Diesel Range Organics (DRO)	<15.0	1000	863	86	880	88	70-130	2	20	mg/kg	01.19.2021 14:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	70		80		85		70-130	%	01.19.2021 14:47
o-Terphenyl	81		78		82		70-130	%	01.19.2021 14:47

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 684989

Arcadis U.S., Inc

WL Well 41

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148475 — Matrix: Solid — Date Prep: 01.20.2021
MB Sample Id: 7719656-1-BLK — LCS Sample Id: 7719656-1-BKS — LCSD Sample Id: 7719656-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	824	82	861	86	70-130	4	20	mg/kg	01.20.2021 12:06	
Diesel Range Organics (DRO)	<15.0	1000	841	84	836	84	70-130	1	20	mg/kg	01.20.2021 12:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	61	**	77		76		70-130	%	01.20.2021 12:06
o-Terphenyl	74		76		73		70-130	%	01.20.2021 12:06

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148361 — Matrix: Solid — Date Prep: 01.19.2021
MB Sample Id: 7719548-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<15.0	mg/kg	01.19.2021 08:13	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148362 — Matrix: Solid — Date Prep: 01.19.2021
MB Sample Id: 7719549-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<15.0	mg/kg	01.19.2021 14:28	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148475 — Matrix: Solid — Date Prep: 01.20.2021
MB Sample Id: 7719656-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<15.0	mg/kg	01.20.2021 11:47	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3148361 — Matrix: Soil — Date Prep: 01.19.2021
Parent Sample Id: 684953-041 — MS Sample Id: 684953-041 S — MSD Sample Id: 684953-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	844	85	871	87	70-130	3	20	mg/kg	01.19.2021 09:30	
Diesel Range Organics (DRO)	<15.0	998	850	85	841	84	70-130	1	20	mg/kg	01.19.2021 09:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		86		70-130	%	01.19.2021 09:30
o-Terphenyl	79		75		70-130	%	01.19.2021 09:30

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 684989

Arcadis U.S., Inc

WL Well 41

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3148362 Matrix: Soil Date Prep: 01.19.2021
Parent Sample Id: 684988-001 MS Sample Id: 684988-001 S MSD Sample Id: 684988-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	803	81	809	81	70-130	1	20	mg/kg	01.19.2021 15:42	
Diesel Range Organics (DRO)	<15.0	997	885	89	891	89	70-130	1	20	mg/kg	01.19.2021 15:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	87		85		70-130	%	01.19.2021 15:42
o-Terphenyl	82		83		70-130	%	01.19.2021 15:42

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3148475 Matrix: Soil Date Prep: 01.20.2021
Parent Sample Id: 685285-001 MS Sample Id: 685285-001 S MSD Sample Id: 685285-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	890	89	782	78	70-130	13	20	mg/kg	01.20.2021 13:03	
Diesel Range Organics (DRO)	<15.0	997	902	90	772	77	70-130	16	20	mg/kg	01.20.2021 13:03	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	91		78		70-130	%	01.20.2021 13:03
o-Terphenyl	83		73		70-130	%	01.20.2021 13:03

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3148435 Matrix: Solid Date Prep: 01.20.2021
MB Sample Id: 7719646-1-BLK LCS Sample Id: 7719646-1-BKS LCSD Sample Id: 7719646-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.128	128	0.128	128	70-130	0	35	mg/kg	01.20.2021 12:38	
Toluene	<0.000456	0.100	0.116	116	0.117	117	70-130	1	35	mg/kg	01.20.2021 12:38	
Ethylbenzene	<0.000565	0.100	0.118	118	0.119	119	70-130	1	35	mg/kg	01.20.2021 12:38	
m,p-Xylenes	<0.00101	0.200	0.234	117	0.237	119	70-130	1	35	mg/kg	01.20.2021 12:38	
o-Xylene	<0.000344	0.100	0.111	111	0.113	113	70-130	2	35	mg/kg	01.20.2021 12:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		105		104		70-130	%	01.20.2021 12:38
4-Bromofluorobenzene	101		93		94		70-130	%	01.20.2021 12:38

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 684989

Arcadis U.S., Inc

WL Well 41

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3148440 — Matrix: Solid — Date Prep: 01.20.2021
MB Sample Id: 7719647-1-BLK — LCS Sample Id: 7719647-1-BKS — LCSD Sample Id: 7719647-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.117	117	0.126	126	70-130	7	35	mg/kg	01.21.2021 00:28	
Toluene	<0.000456	0.100	0.106	106	0.111	111	70-130	5	35	mg/kg	01.21.2021 00:28	
Ethylbenzene	<0.000565	0.100	0.110	110	0.113	113	70-130	3	35	mg/kg	01.21.2021 00:28	
m,p-Xylenes	<0.00101	0.200	0.220	110	0.222	111	70-130	1	35	mg/kg	01.21.2021 00:28	
o-Xylene	<0.000344	0.100	0.107	107	0.107	107	70-130	0	35	mg/kg	01.21.2021 00:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		105		105		70-130	%	01.21.2021 00:28
4-Bromofluorobenzene	110		108		93		70-130	%	01.21.2021 00:28

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3148435 — Matrix: Soil — Date Prep: 01.20.2021
Parent Sample Id: 684987-013 — MS Sample Id: 684987-013 S — MSD Sample Id: 684987-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.111	111	0.116	116	70-130	4	35	mg/kg	01.20.2021 14:13	
Toluene	<0.000456	0.100	0.0996	100	0.103	103	70-130	3	35	mg/kg	01.20.2021 14:13	
Ethylbenzene	<0.000565	0.100	0.101	101	0.105	105	70-130	4	35	mg/kg	01.20.2021 14:13	
m,p-Xylenes	<0.00101	0.200	0.201	101	0.206	103	70-130	2	35	mg/kg	01.20.2021 14:13	
o-Xylene	<0.000344	0.100	0.0949	95	0.0975	98	70-130	3	35	mg/kg	01.20.2021 14:13	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		105		70-130	%	01.20.2021 14:13
4-Bromofluorobenzene	99		95		70-130	%	01.20.2021 14:13

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3148440 — Matrix: Soil — Date Prep: 01.20.2021
Parent Sample Id: 684989-003 — MS Sample Id: 684989-003 S — MSD Sample Id: 684989-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.0969	97	0.103	103	70-130	6	35	mg/kg	01.21.2021 01:09	
Toluene	<0.000456	0.100	0.0855	86	0.0915	92	70-130	7	35	mg/kg	01.21.2021 01:09	
Ethylbenzene	<0.000565	0.100	0.0867	87	0.0952	95	70-130	9	35	mg/kg	01.21.2021 01:09	
m,p-Xylenes	<0.00101	0.200	0.171	86	0.190	95	70-130	11	35	mg/kg	01.21.2021 01:09	
o-Xylene	<0.000344	0.100	0.0819	82	0.0905	91	70-130	10	35	mg/kg	01.21.2021 01:09	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		105		70-130	%	01.21.2021 01:09
4-Bromofluorobenzene	98		102		70-130	%	01.21.2021 01:09

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Eurofins Xenco
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record 684989

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-23595-8666.1
Client Contact: Motgan Jordan	Phone: 619 851 8792	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 1 of 2
Company: ARCADIS U.S., Inc.				Job #:
Address: 1717 W 6th Street. Suite 210	Due Date Requested:			
City: Austin	TAT Requested (days): std			
State, Zip: TX, 78703				
Phone: 281 644 9437	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: 30064856-0002B	Project #: 30064862 -0002B			
Site: WL Well 41	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015_GRO/ DRO/ ORO	300 - Chloride	8021- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SB-7-S-0-.5-210115	1/15/21	1200	G	Solid						1	
SB-7-S-1-2-210115		1208		Solid							
SB-7-S-3-4-210115		1214		Solid							
SB-7-S-5-5.5-21015		1224		Solid							
SB-8-S-0-.5-210115		1233		Solid							
SB-8-S-1-2-210115		1237		Solid							
SB-8-S-3-4-210115		1245		Solid							
SB-5-S-0-.5-210115		1023		Solid							
SB-6-S-0-.5-210115		1054		Solid							
SB-6-S-1-2-210115		1105		Solid							
SB-6-S-3-4-210115		1110		Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	1/15/21 1500	Arcadis	[signature]	1-15-21 1500	Arcadis
2	[signature]	1-15-21 1658	Arcadis	[signature]	1-15-21 1658	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: -.4 / -.9

Received by OCD: 10/23/2024 1:19:31 PM
Final 1.000
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Released to Imaging: 10/30/2024 9:04:02 AM

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Eurofins Xenco
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record

6984989

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-23595-8666.1
Client Contact: Motgan Jordan	Phone: 619 851 8792	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 2 of 2
Company: ARCADIS U.S., Inc.				Job #:
Address: 1717 W 6th Street. Suite 210	Due Date Requested:			
City: Austin	TAT Requested (days): Std			
State, Zip: TX, 78703				
Phone: 281 644 9437	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: 30064856-0002B	Project #: 30064862 -0002B			
Site: WL Well 41	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015_GRO/ DRO/ ORO	300 - Chloride	8021- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SB-6-S-5-6-210115	1/13/21	1114	G	Solid			1	1	1	1	
				Solid							
				Solid							
				Solid							
				Solid							
	1/13/21			Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/13/21 1500	Arcadis		1-15-21 1500	Arcadis
2		1-15-21 1658	Arcadis		1-15-21 1658	
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: -.4 / -.9

Received by OCD: 10/23/2024 1:19:31 PM
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Final 1.000
Released to Imaging: 10/30/2024 9:04:02 AM

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Arcadis U.S., Inc

Date/ Time Received: 01.15.2021 04.58.00 PM

Work Order #: 684989

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-.9
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 01.18.2021

Brianna Teel

Checklist reviewed by: Sachin Kudchadkar Date: 01.18.2021

Sachin Kudchadkar

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Douglas Jordan
ARCADIS U.S. Inc
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Generated 4/6/2023 11:02:59 AM

JOB DESCRIPTION

WLU Well 41

JOB NUMBER

880-26346-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

Eurofins Midland

Job Notes

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
4/6/2023 11:02:59 AM

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

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Laboratory Job ID: 880-26346-1

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Job ID: 880-26346-1
Project/Site: WLU Well 41

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Job ID: 880-26346-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-26346-1

Receipt
The samples were received on 3/24/2023 3:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-50193/5-A). 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 method blank for preparation batch 880-49838 and analytical batch 880-49908 contained Diesel Range Organics (Over C10-C28) and OIl Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-49908/5), (LCS 880-49838/2-A) and (LCSD 880-49838/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49838 and analytical batch 880-49908 was outside the upper control limits.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50169 and analytical batch 880-50389 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.SB-12-S-0-.5'-20230323 (880-26346-1), SB-12-S-2'-20230323 (880-26346-2), SB-12-S-4'-20230323 (880-26346-3), SB-11-S-.5'-20230323 (880-26346-4) and SB-11-S-2'-20230323 (880-26346-5)

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

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-12-S-0-.5'-20230323

Lab Sample ID: 880-26346-1

Date Collected: 03/23/23 11:30
Matrix: Solid
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 16:50	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/03/23 13:16	04/05/23 16:50	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/03/23 13:16	04/05/23 16:50	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/03/23 13:16	04/05/23 16:50	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/03/23 13:16	04/05/23 16:50	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/03/23 13:16	04/05/23 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*04/03/23 13:16*	*04/05/23 16:50*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*04/03/23 13:16*	*04/05/23 16:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**38.3**	**J**	50.0	15.0	mg/Kg			03/31/23 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**18.1**	**J**	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 16:47	1
Diesel Range Organics (Over C10-C28)	**20.2**	**J B**	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 16:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*03/29/23 12:35*	*03/30/23 16:47*	*1*
o-Terphenyl	*107*		*70 - 130*	*03/29/23 12:35*	*03/30/23 16:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		5.05	0.399	mg/Kg			04/04/23 19:48	1

Client Sample ID: SB-12-S-2'-20230323

Lab Sample ID: 880-26346-2

Date Collected: 03/23/23 11:40
Matrix: Solid
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 18:36	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/03/23 13:16	04/05/23 18:36	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/03/23 13:16	04/05/23 18:36	1
m-Xylene & p-Xylene	**0.00106**	**J**	0.00399	0.00101	mg/Kg		04/03/23 13:16	04/05/23 18:36	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/03/23 13:16	04/05/23 18:36	1
Xylenes, Total	**0.00106**	**J**	0.00399	0.00101	mg/Kg		04/03/23 13:16	04/05/23 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/03/23 13:16*	*04/05/23 18:36*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*04/03/23 13:16*	*04/05/23 18:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**114**		49.9	15.0	mg/Kg			03/31/23 11:54	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-12-S-2'-20230323

Lab Sample ID: 880-26346-2
Matrix: Solid
Date Collected: 03/23/23 11:40
Date Received: 03/24/23 15:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.9	J	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 17:09	1
Diesel Range Organics (Over C10-C28)	60.6	B	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 17:09	1
Oil Range Organics (Over C28-C36)	31.5	J B	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*03/29/23 12:35*	*03/30/23 17:09*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/29/23 12:35*	*03/30/23 17:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		5.02	0.397	mg/Kg			04/04/23 19:52	1

Client Sample ID: SB-12-S-4'-20230323

Lab Sample ID: 880-26346-3
Matrix: Solid
Date Collected: 03/23/23 12:30
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 19:01	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		04/03/23 13:16	04/05/23 19:01	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/03/23 13:16	04/05/23 19:01	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		04/03/23 13:16	04/05/23 19:01	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		04/03/23 13:16	04/05/23 19:01	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/03/23 13:16	04/05/23 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*04/03/23 13:16*	*04/05/23 19:01*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/03/23 13:16*	*04/05/23 19:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.7		49.9	15.0	mg/Kg			03/31/23 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.8	J	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 17:31	1
Diesel Range Organics (Over C10-C28)	17.5	J B	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 17:31	1
Oil Range Organics (Over C28-C36)	17.4	J B	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*03/29/23 12:35*	*03/30/23 17:31*	*1*
o-Terphenyl	*106*		*70 - 130*	*03/29/23 12:35*	*03/30/23 17:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		5.00	0.395	mg/Kg			04/04/23 19:57	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-11-S-.5'-20230323

Lab Sample ID: 880-26346-4

Date Collected: 03/23/23 12:35
Matrix: Solid
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 19:27	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/03/23 13:16	04/05/23 19:27	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/03/23 13:16	04/05/23 19:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/03/23 13:16	04/05/23 19:27	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/03/23 13:16	04/05/23 19:27	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/03/23 13:16	04/05/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*04/03/23 13:16*	*04/05/23 19:27*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/03/23 13:16*	*04/05/23 19:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**91.4**		49.9	15.0	mg/Kg			03/31/23 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**23.6**	**J**	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 17:53	1
Diesel Range Organics (Over C10-C28)	**51.6**	**B**	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 17:53	1
Oil Range Organics (Over C28-C36)	**16.2**	**J B**	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*03/29/23 12:35*	*03/30/23 17:53*	*1*
o-Terphenyl	*115*		*70 - 130*	*03/29/23 12:35*	*03/30/23 17:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2990**		49.7	3.93	mg/Kg			04/04/23 20:01	10

Client Sample ID: SB-11-S-2'-20230323

Lab Sample ID: 880-26346-5

Date Collected: 03/23/23 12:40
Matrix: Solid
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 19:53	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/03/23 13:16	04/05/23 19:53	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/03/23 13:16	04/05/23 19:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/03/23 13:16	04/05/23 19:53	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/03/23 13:16	04/05/23 19:53	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/03/23 13:16	04/05/23 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/03/23 13:16*	*04/05/23 19:53*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*04/03/23 13:16*	*04/05/23 19:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**80.2**		49.9	15.0	mg/Kg			03/31/23 11:54	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-11-S-2'-20230323

Lab Sample ID: 880-26346-5

Date Collected: 03/23/23 12:40
Matrix: Solid
Date Received: 03/24/23 15:09

Method: SW846 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		03/29/23 12:35	03/30/23 18:38	1
Diesel Range Organics (Over C10-C28)	**59.1**	**B**	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 18:38	1
Oil Range Organics (Over C28-C36)	**21.1**	**J B**	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/29/23 12:35*	*03/30/23 18:38*	*1*
o-Terphenyl	*123*		*70 - 130*	*03/29/23 12:35*	*03/30/23 18:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2490**		25.0	1.97	mg/Kg			04/04/23 20:06	5

Client Sample ID: SB-11-S-4'-20230323

Lab Sample ID: 880-26346-6

Date Collected: 03/23/23 12:45
Matrix: Solid
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 20:19	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/03/23 13:16	04/05/23 20:19	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/03/23 13:16	04/05/23 20:19	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/03/23 13:16	04/05/23 20:19	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/03/23 13:16	04/05/23 20:19	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/03/23 13:16	04/05/23 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*04/03/23 13:16*	*04/05/23 20:19*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*04/03/23 13:16*	*04/05/23 20:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.4**		50.0	15.0	mg/Kg			03/31/23 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**17.1**	**J**	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 19:00	1
Diesel Range Organics (Over C10-C28)	**49.7**	**J B**	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 19:00	1
Oil Range Organics (Over C28-C36)	**18.6**	**J B**	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*03/29/23 12:35*	*03/30/23 19:00*	*1*
o-Terphenyl	*105*		*70 - 130*	*03/29/23 12:35*	*03/30/23 19:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2770**		50.3	3.97	mg/Kg			04/04/23 20:10	10

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-10-S-.5'-20230323

Lab Sample ID: 880-26346-7

Date Collected: 03/23/23 12:50
Matrix: Solid
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 20:45	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/03/23 13:16	04/05/23 20:45	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/03/23 13:16	04/05/23 20:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/03/23 13:16	04/05/23 20:45	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/03/23 13:16	04/05/23 20:45	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/03/23 13:16	04/05/23 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/03/23 13:16*	*04/05/23 20:45*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*04/03/23 13:16*	*04/05/23 20:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**32.7**	**J**	50.0	15.0	mg/Kg			03/31/23 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**16.8**	**J**	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 19:22	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 19:22	1
Oil Range Organics (Over C28-C36)	**15.9**	**J B**	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*03/29/23 12:35*	*03/30/23 19:22*	*1*
o-Terphenyl	*96*		*70 - 130*	*03/29/23 12:35*	*03/30/23 19:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**461**		24.9	1.97	mg/Kg			04/04/23 20:24	5

Client Sample ID: SB-10-S-2'-20230323

Lab Sample ID: 880-26346-8

Date Collected: 03/23/23 12:55
Matrix: Solid
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 21:11	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		04/03/23 13:16	04/05/23 21:11	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/03/23 13:16	04/05/23 21:11	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		04/03/23 13:16	04/05/23 21:11	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		04/03/23 13:16	04/05/23 21:11	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/03/23 13:16	04/05/23 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*04/03/23 13:16*	*04/05/23 21:11*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*04/03/23 13:16*	*04/05/23 21:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**16.6**	**J**	49.9	15.0	mg/Kg			03/31/23 11:54	1

Eurofins Midland

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-10-S-2'-20230323

Lab Sample ID: 880-26346-8

Date Collected: 03/23/23 12:55
Matrix: Solid
Date Received: 03/24/23 15:09

Method: SW846 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	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 19:44	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 19:44	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*03/29/23 12:35*	*03/30/23 19:44*	*1*
o-Terphenyl	*110*		*70 - 130*	*03/29/23 12:35*	*03/30/23 19:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	543		25.2	1.99	mg/Kg			04/04/23 20:29	5

Client Sample ID: SB-10-S-4'-20230323

Lab Sample ID: 880-26346-9

Date Collected: 03/23/23 13:10
Matrix: Solid
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 21:37	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		04/03/23 13:16	04/05/23 21:37	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		04/03/23 13:16	04/05/23 21:37	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		04/03/23 13:16	04/05/23 21:37	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		04/03/23 13:16	04/05/23 21:37	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		04/03/23 13:16	04/05/23 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/03/23 13:16*	*04/05/23 21:37*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*04/03/23 13:16*	*04/05/23 21:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.9	J	49.9	15.0	mg/Kg			03/31/23 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.9	J	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 20:06	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 20:06	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*03/29/23 12:35*	*03/30/23 20:06*	*1*
o-Terphenyl	*105*		*70 - 130*	*03/29/23 12:35*	*03/30/23 20:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	397		5.00	0.395	mg/Kg			04/04/23 20:42	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-9-S-.5'-20230323

Lab Sample ID: 880-26346-10
Matrix: Solid
Date Collected: 03/23/23 14:00
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 22:04	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/03/23 13:16	04/05/23 22:04	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/03/23 13:16	04/05/23 22:04	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/03/23 13:16	04/05/23 22:04	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/03/23 13:16	04/05/23 22:04	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/03/23 13:16	04/05/23 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*04/03/23 13:16*	*04/05/23 22:04*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/03/23 13:16*	*04/05/23 22:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.4**	**J**	50.0	15.0	mg/Kg			03/31/23 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**17.4**	**J**	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 20:27	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 20:27	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*03/29/23 12:35*	*03/30/23 20:27*	*1*
o-Terphenyl	*108*		*70 - 130*	*03/29/23 12:35*	*03/30/23 20:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		25.0	1.98	mg/Kg			04/04/23 20:47	5

Client Sample ID: SB-9-S-2'-20230323

Lab Sample ID: 880-26346-11
Matrix: Solid
Date Collected: 03/23/23 14:10
Date Received: 03/24/23 15:09

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		04/03/23 13:16	04/05/23 22:30	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/03/23 13:16	04/05/23 22:30	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/03/23 13:16	04/05/23 22:30	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/03/23 13:16	04/05/23 22:30	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/03/23 13:16	04/05/23 22:30	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/03/23 13:16	04/05/23 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/03/23 13:16*	*04/05/23 22:30*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*04/03/23 13:16*	*04/05/23 22:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**19.1**	**J**	49.9	15.0	mg/Kg			03/31/23 11:54	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-9-S-2'-20230323

Lab Sample ID: 880-26346-11

Date Collected: 03/23/23 14:10

Matrix: Solid

Date Received: 03/24/23 15:09

Method: SW846 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**	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 20:49	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 20:49	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		03/29/23 12:35	03/30/23 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*03/29/23 12:35*	*03/30/23 20:49*	*1*
o-Terphenyl	*122*		*70 - 130*	*03/29/23 12:35*	*03/30/23 20:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**979**		24.9	1.96	mg/Kg			04/04/23 20:51	5

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-26346-1	SB-12-S-0-.5'-20230323	118	93
880-26346-2	SB-12-S-2'-20230323	103	75
880-26346-3	SB-12-S-4'-20230323	114	89
880-26346-4	SB-11-S-.5'-20230323	121	96
880-26346-5	SB-11-S-2'-20230323	108	87
880-26346-6	SB-11-S-4'-20230323	121	90
880-26346-7	SB-10-S-.5'-20230323	104	89
880-26346-8	SB-10-S-2'-20230323	114	91
880-26346-9	SB-10-S-4'-20230323	104	87
880-26346-10	SB-9-S-.5'-20230323	112	94
880-26346-11	SB-9-S-2'-20230323	109	80
LCS 880-50193/1-A	Lab Control Sample	101	78
LCSD 880-50193/2-A	Lab Control Sample Dup	102	97
MB 880-50193/5-A	Method Blank	63 S1-	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-26346-1	SB-12-S-0-.5'-20230323	92	107
880-26346-2	SB-12-S-2'-20230323	87	101
880-26346-3	SB-12-S-4'-20230323	89	106
880-26346-4	SB-11-S-.5'-20230323	101	115
880-26346-5	SB-11-S-2'-20230323	105	123
880-26346-6	SB-11-S-4'-20230323	88	105
880-26346-7	SB-10-S-.5'-20230323	83	96
880-26346-8	SB-10-S-2'-20230323	96	110
880-26346-9	SB-10-S-4'-20230323	87	105
880-26346-10	SB-9-S-.5'-20230323	89	108
880-26346-11	SB-9-S-2'-20230323	103	122
LCS 880-49838/2-A	Lab Control Sample	122	149 S1+
LCSD 880-49838/3-A	Lab Control Sample Dup	120	143 S1+
MB 880-49838/1-A	Method Blank	120	141 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50193/5-A
Matrix: Solid
Analysis Batch: 50361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/03/23 13:16	04/05/23 12:26	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/03/23 13:16	04/05/23 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*04/03/23 13:16*	*04/05/23 12:26*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/03/23 13:16*	*04/05/23 12:26*	*1*

Lab Sample ID: LCS 880-50193/1-A
Matrix: Solid
Analysis Batch: 50361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50193

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08752		mg/Kg		88	70 - 130		
Toluene			0.100	0.09671		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09057		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1752		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08957		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*

Lab Sample ID: LCSD 880-50193/2-A
Matrix: Solid
Analysis Batch: 50361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50193

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1092		mg/Kg		109	70 - 130	22	35
Toluene			0.100	0.1119		mg/Kg		112	70 - 130	15	35
Ethylbenzene			0.100	0.1031		mg/Kg		103	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.1996		mg/Kg		100	70 - 130	13	35
o-Xylene			0.100	0.1044		mg/Kg		104	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

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

Lab Sample ID: MB 880-49838/1-A
Matrix: Solid
Analysis Batch: 49908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 08:23	1
Diesel Range Organics (Over C10-C28)	22.09	J	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 08:23	1
Oil Range Organics (Over C28-C36)	20.40	J	50.0	15.0	mg/Kg		03/29/23 12:35	03/30/23 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*03/29/23 12:35*	*03/30/23 08:23*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*03/29/23 12:35*	*03/30/23 08:23*	*1*

Lab Sample ID: LCS 880-49838/2-A
Matrix: Solid
Analysis Batch: 49908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	856.5		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	885.5		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*149*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-49838/3-A
Matrix: Solid
Analysis Batch: 49908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49838

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	870.2		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	886.2		mg/Kg		89	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*143*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50169/1-A
Matrix: Solid
Analysis Batch: 50389

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			04/04/23 18:53	1

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-50169/2-A
Matrix: Solid
Analysis Batch: 50389

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.0		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-50169/3-A
Matrix: Solid
Analysis Batch: 50389

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.6		mg/Kg		99	90 - 110	2	20

Lab Sample ID: 880-26346-6 MS
Matrix: Solid
Analysis Batch: 50389

Client Sample ID: SB-11-S-4'-20230323
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2770		2520	5170		mg/Kg		95	90 - 110		

Lab Sample ID: 880-26346-6 MSD
Matrix: Solid
Analysis Batch: 50389

Client Sample ID: SB-11-S-4'-20230323
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2770		2520	5114		mg/Kg		93	90 - 110	1	20

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

GC VOA

Prep Batch: 50193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26346-1	SB-12-S-0-.5'-20230323	Total/NA	Solid	5030B	
880-26346-2	SB-12-S-2'-20230323	Total/NA	Solid	5030B	
880-26346-3	SB-12-S-4'-20230323	Total/NA	Solid	5030B	
880-26346-4	SB-11-S-.5'-20230323	Total/NA	Solid	5030B	
880-26346-5	SB-11-S-2'-20230323	Total/NA	Solid	5030B	
880-26346-6	SB-11-S-4'-20230323	Total/NA	Solid	5030B	
880-26346-7	SB-10-S-.5'-20230323	Total/NA	Solid	5030B	
880-26346-8	SB-10-S-2'-20230323	Total/NA	Solid	5030B	
880-26346-9	SB-10-S-4'-20230323	Total/NA	Solid	5030B	
880-26346-10	SB-9-S-.5'-20230323	Total/NA	Solid	5030B	
880-26346-11	SB-9-S-2'-20230323	Total/NA	Solid	5030B	
MB 880-50193/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-50193/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-50193/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 50361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26346-1	SB-12-S-0-.5'-20230323	Total/NA	Solid	8021B	50193
880-26346-2	SB-12-S-2'-20230323	Total/NA	Solid	8021B	50193
880-26346-3	SB-12-S-4'-20230323	Total/NA	Solid	8021B	50193
880-26346-4	SB-11-S-.5'-20230323	Total/NA	Solid	8021B	50193
880-26346-5	SB-11-S-2'-20230323	Total/NA	Solid	8021B	50193
880-26346-6	SB-11-S-4'-20230323	Total/NA	Solid	8021B	50193
880-26346-7	SB-10-S-.5'-20230323	Total/NA	Solid	8021B	50193
880-26346-8	SB-10-S-2'-20230323	Total/NA	Solid	8021B	50193
880-26346-9	SB-10-S-4'-20230323	Total/NA	Solid	8021B	50193
880-26346-10	SB-9-S-.5'-20230323	Total/NA	Solid	8021B	50193
880-26346-11	SB-9-S-2'-20230323	Total/NA	Solid	8021B	50193
MB 880-50193/5-A	Method Blank	Total/NA	Solid	8021B	50193
LCS 880-50193/1-A	Lab Control Sample	Total/NA	Solid	8021B	50193
LCSD 880-50193/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50193

GC Semi VOA

Prep Batch: 49838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26346-1	SB-12-S-0-.5'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-2	SB-12-S-2'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-3	SB-12-S-4'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-4	SB-11-S-.5'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-5	SB-11-S-2'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-6	SB-11-S-4'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-7	SB-10-S-.5'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-8	SB-10-S-2'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-9	SB-10-S-4'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-10	SB-9-S-.5'-20230323	Total/NA	Solid	8015NM Prep	
880-26346-11	SB-9-S-2'-20230323	Total/NA	Solid	8015NM Prep	
MB 880-49838/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49838/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

GC Semi VOA

Analysis Batch: 49908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26346-1	SB-12-S-0-.5'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-2	SB-12-S-2'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-3	SB-12-S-4'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-4	SB-11-S-.5'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-5	SB-11-S-2'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-6	SB-11-S-4'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-7	SB-10-S-.5'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-8	SB-10-S-2'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-9	SB-10-S-4'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-10	SB-9-S-.5'-20230323	Total/NA	Solid	8015B NM	49838
880-26346-11	SB-9-S-2'-20230323	Total/NA	Solid	8015B NM	49838
MB 880-49838/1-A	Method Blank	Total/NA	Solid	8015B NM	49838
LCS 880-49838/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49838
LCSD 880-49838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49838

Analysis Batch: 50031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26346-1	SB-12-S-0-.5'-20230323	Total/NA	Solid	8015 NM	
880-26346-2	SB-12-S-2'-20230323	Total/NA	Solid	8015 NM	
880-26346-3	SB-12-S-4'-20230323	Total/NA	Solid	8015 NM	
880-26346-4	SB-11-S-.5'-20230323	Total/NA	Solid	8015 NM	
880-26346-5	SB-11-S-2'-20230323	Total/NA	Solid	8015 NM	
880-26346-6	SB-11-S-4'-20230323	Total/NA	Solid	8015 NM	
880-26346-7	SB-10-S-.5'-20230323	Total/NA	Solid	8015 NM	
880-26346-8	SB-10-S-2'-20230323	Total/NA	Solid	8015 NM	
880-26346-9	SB-10-S-4'-20230323	Total/NA	Solid	8015 NM	
880-26346-10	SB-9-S-.5'-20230323	Total/NA	Solid	8015 NM	
880-26346-11	SB-9-S-2'-20230323	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26346-1	SB-12-S-0-.5'-20230323	Soluble	Solid	DI Leach	
880-26346-2	SB-12-S-2'-20230323	Soluble	Solid	DI Leach	
880-26346-3	SB-12-S-4'-20230323	Soluble	Solid	DI Leach	
880-26346-4	SB-11-S-.5'-20230323	Soluble	Solid	DI Leach	
880-26346-5	SB-11-S-2'-20230323	Soluble	Solid	DI Leach	
880-26346-6	SB-11-S-4'-20230323	Soluble	Solid	DI Leach	
880-26346-7	SB-10-S-.5'-20230323	Soluble	Solid	DI Leach	
880-26346-8	SB-10-S-2'-20230323	Soluble	Solid	DI Leach	
880-26346-9	SB-10-S-4'-20230323	Soluble	Solid	DI Leach	
880-26346-10	SB-9-S-.5'-20230323	Soluble	Solid	DI Leach	
880-26346-11	SB-9-S-2'-20230323	Soluble	Solid	DI Leach	
MB 880-50169/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50169/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50169/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26346-6 MS	SB-11-S-4'-20230323	Soluble	Solid	DI Leach	
880-26346-6 MSD	SB-11-S-4'-20230323	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

HPLC/IC

Analysis Batch: 50389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26346-1	SB-12-S-0-.5'-20230323	Soluble	Solid	300.0	50169
880-26346-2	SB-12-S-2'-20230323	Soluble	Solid	300.0	50169
880-26346-3	SB-12-S-4'-20230323	Soluble	Solid	300.0	50169
880-26346-4	SB-11-S-.5'-20230323	Soluble	Solid	300.0	50169
880-26346-5	SB-11-S-2'-20230323	Soluble	Solid	300.0	50169
880-26346-6	SB-11-S-4'-20230323	Soluble	Solid	300.0	50169
880-26346-7	SB-10-S-.5'-20230323	Soluble	Solid	300.0	50169
880-26346-8	SB-10-S-2'-20230323	Soluble	Solid	300.0	50169
880-26346-9	SB-10-S-4'-20230323	Soluble	Solid	300.0	50169
880-26346-10	SB-9-S-.5'-20230323	Soluble	Solid	300.0	50169
880-26346-11	SB-9-S-2'-20230323	Soluble	Solid	300.0	50169
MB 880-50169/1-A	Method Blank	Soluble	Solid	300.0	50169
LCS 880-50169/2-A	Lab Control Sample	Soluble	Solid	300.0	50169
LCSD 880-50169/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50169
880-26346-6 MS	SB-11-S-4'-20230323	Soluble	Solid	300.0	50169
880-26346-6 MSD	SB-11-S-4'-20230323	Soluble	Solid	300.0	50169

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-12-S-0-.5'-20230323

Lab Sample ID: 880-26346-1

Date Collected: 03/23/23 11:30
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 16:50	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 16:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50389	04/04/23 19:48	SMC	EET MID

Client Sample ID: SB-12-S-2'-20230323

Lab Sample ID: 880-26346-2

Date Collected: 03/23/23 11:40
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 18:36	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 17:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50389	04/04/23 19:52	SMC	EET MID

Client Sample ID: SB-12-S-4'-20230323

Lab Sample ID: 880-26346-3

Date Collected: 03/23/23 12:30
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 19:01	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 17:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50389	04/04/23 19:57	SMC	EET MID

Client Sample ID: SB-11-S-.5'-20230323

Lab Sample ID: 880-26346-4

Date Collected: 03/23/23 12:35
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 19:27	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 17:53	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-11-S-.5'-20230323

Lab Sample ID: 880-26346-4

Date Collected: 03/23/23 12:35
Matrix: Solid
Date Received: 03/24/23 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50389	04/04/23 20:01	SMC	EET MID

Client Sample ID: SB-11-S-2'-20230323

Lab Sample ID: 880-26346-5

Date Collected: 03/23/23 12:40
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 19:53	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 18:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50389	04/04/23 20:06	SMC	EET MID

Client Sample ID: SB-11-S-4'-20230323

Lab Sample ID: 880-26346-6

Date Collected: 03/23/23 12:45
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 20:19	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 19:00	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50389	04/04/23 20:10	SMC	EET MID

Client Sample ID: SB-10-S-.5'-20230323

Lab Sample ID: 880-26346-7

Date Collected: 03/23/23 12:50
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 20:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 19:22	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50389	04/04/23 20:24	SMC	EET MID

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-10-S-2'-20230323

Lab Sample ID: 880-26346-8

Date Collected: 03/23/23 12:55
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 21:11	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 19:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50389	04/04/23 20:29	SMC	EET MID

Client Sample ID: SB-10-S-4'-20230323

Lab Sample ID: 880-26346-9

Date Collected: 03/23/23 13:10
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 21:37	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 20:06	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50389	04/04/23 20:42	SMC	EET MID

Client Sample ID: SB-9-S-.5'-20230323

Lab Sample ID: 880-26346-10

Date Collected: 03/23/23 14:00
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 22:04	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 20:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50389	04/04/23 20:47	SMC	EET MID

Client Sample ID: SB-9-S-2'-20230323

Lab Sample ID: 880-26346-11

Date Collected: 03/23/23 14:10
Matrix: Solid
Date Received: 03/24/23 15:09

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	50193	04/03/23 13:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50361	04/05/23 22:30	MNR	EET MID
Total/NA	Analysis	8015 NM		1			50031	03/31/23 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49838	03/29/23 12:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49908	03/30/23 20:49	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

Client Sample ID: SB-9-S-2'-20230323

Date Collected: 03/23/23 14:10
Date Received: 03/24/23 15:09

Lab Sample ID: 880-26346-11

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	50169	04/03/23 11:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50389	04/04/23 20:51	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 U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

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	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: WLU Well 41

Job ID: 880-26346-1

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: WLU Well 41

Job ID: 880-26346-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26346-1	SB-12-S-0-.5'-20230323	Solid	03/23/23 11:30	03/24/23 15:09
880-26346-2	SB-12-S-2'-20230323	Solid	03/23/23 11:40	03/24/23 15:09
880-26346-3	SB-12-S-4'-20230323	Solid	03/23/23 12:30	03/24/23 15:09
880-26346-4	SB-11-S-.5'-20230323	Solid	03/23/23 12:35	03/24/23 15:09
880-26346-5	SB-11-S-2'-20230323	Solid	03/23/23 12:40	03/24/23 15:09
880-26346-6	SB-11-S-4'-20230323	Solid	03/23/23 12:45	03/24/23 15:09
880-26346-7	SB-10-S-.5'-20230323	Solid	03/23/23 12:50	03/24/23 15:09
880-26346-8	SB-10-S-2'-20230323	Solid	03/23/23 12:55	03/24/23 15:09
880-26346-9	SB-10-S-4'-20230323	Solid	03/23/23 13:10	03/24/23 15:09
880-26346-10	SB-9-S-.5'-20230323	Solid	03/23/23 14:00	03/24/23 15:09
880-26346-11	SB-9-S-2'-20230323	Solid	03/23/23 14:10	03/24/23 15:09

Released to Imaging: 10/30/2024 9:04:02 AM
Received by OCD: 10/23/2024 1:19:31 PM

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins | Environment Testing

26346

Client Information	Sampler: Daniel McKee	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-5491-724 1
Client Contact: Douglas Jordan	Phone: 432-999-2980	E-Mail: John Builes@et eurofinsus com	State of Origin: NM	Page: Page ~~1 of 2~~ 1 of 1
Company: ARCADIS U S Inc	PWSID:			Job #:
Address: 10205 Westheimer Rd Suite 800	Due Date Requested			
City: Houston	TAT Requested (days): standard			
State, Zip: TX, 77042	Compliance Project: Δ Yes Δ No			
Phone: 713-953-4739(Tel)	PO #: PN 30172230 - 00026			
Email: douglas jordan@arcadis com	WO #:			
Project Name: ~~Lovington~~ WLU Well 41	Project #: 88001697 - 00026			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W - pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
SB-12-S-0-.5'-20230323	3-23-23	1130	G	Solid			X	1	402
SB-12-S-2'-20230323		1140		Solid			X	1	
SB-12-S-4'-20230323		1230		Solid			X	1	
~~SB-11-S-0-.5'~~ SB-11-S-0-.5'-20230323		1235		Solid			X	1	
SB-11-S-2'-20230323		1240		Solid			X	1	
SB-11-S-4'-20230323		1245		Solid			X	1	
SB-10-S-0-.5'-20230323		1250		Solid			X	1	
SB-10-S-2'-20230323		1255		Solid			X	1	
SB-10-S-4'-20230323		1310		Solid			X	1	
SB-9-S-0-.5'-20230323		1400		Solid				1	
~~SB-9~~ SB-9-S-2'-20230323	3-23-23	1410	G	Solid				1	

880-26346 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		3-24-23 / 1500	Arcadis		3/24/23	
	Relinquished by	Date/Time	Company	Received by	Date/Time: 1509	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		1.3/1.0

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc Job Number: 880-26346-1

Login Number: 26346 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 2/5/2024 2:32:51 PM

JOB DESCRIPTION

WLU 41
Lovington, NM

JOB NUMBER

880-38323-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 10/30/2024 9:04:02 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
2/5/2024 2:32:51 PM

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

Client: ARCADIS US Inc
Project/Site: WLU 41

Laboratory Job ID: 880-38323-1
SDG: Lovington, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: ARCADIS US Inc
Project: WLU 41

Job ID: 880-38323-1

Job ID: 880-38323-1 Eurofins Midland

Job Narrative
880-38323-1

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 1/23/2024 1:01 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 1.5°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SB-13-S-1'-240119 (880-38323-1), SB-13-S-2'-240119 (880-38323-2), SB-13-S-4'-240119 (880-38323-3), SB-14-S-1'-240119 (880-38323-4), SB-14-S-2'-240119 (880-38323-5), SB-14-S-4'-240119 (880-38323-6), SB-15-S-1'-240119 (880-38323-7), SB-15-S-2'-240119 (880-38323-8) and SB-15-S-4'-240119 (880-38323-9).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-13-S-2'-240119 (880-38323-2). 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 880-71570 and analytical batch 880-71727 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-13-S-2'-240119 (880-38323-2), SB-14-S-2'-240119 (880-38323-5) and SB-15-S-2'-240119 (880-38323-8). 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 880-71570 and analytical batch 880-71727 contained 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-71570 and analytical batch 880-71727 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Client Sample ID: SB-13-S-1'-240119
Date Collected: 01/19/24 12:40
Date Received: 01/23/24 13:01

Lab Sample ID: 880-38323-1
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1190**		25.0	1.97	mg/Kg			01/24/24 10:19	5

Client Sample ID: SB-13-S-2'-240119
Date Collected: 01/19/24 12:50
Date Received: 01/23/24 13:01

Lab Sample ID: 880-38323-2
Matrix: Solid

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		01/29/24 13:34	02/01/24 16:03	1
Toluene	**0.00111**	**J**	0.00199	0.000454	mg/Kg		01/29/24 13:34	02/01/24 16:03	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/29/24 13:34	02/01/24 16:03	1
m-Xylene & p-Xylene	**0.00128**	**J**	0.00398	0.00101	mg/Kg		01/29/24 13:34	02/01/24 16:03	1
o-Xylene	**0.000836**	**J**	0.00199	0.000343	mg/Kg		01/29/24 13:34	02/01/24 16:03	1
Xylenes, Total	**0.00212**	**J**	0.00398	0.00101	mg/Kg		01/29/24 13:34	02/01/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*01/29/24 13:34*	*02/01/24 16:03*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/29/24 13:34*	*02/01/24 16:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00323**	**J**	0.00398	0.00101	mg/Kg			02/01/24 16:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**49.3**	**J**	49.9	15.0	mg/Kg			01/27/24 11:04	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	**16.7**	**J *1**	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 11:04	1
Diesel Range Organics (Over C10-C28)	**32.6**	**J B**	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 11:04	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*01/25/24 09:22*	*01/27/24 11:04*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*01/25/24 09:22*	*01/27/24 11:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**224**		5.02	0.397	mg/Kg			01/23/24 23:33	1

Client Sample ID: SB-13-S-4'-240119
Date Collected: 01/19/24 13:00
Date Received: 01/23/24 13:01

Lab Sample ID: 880-38323-3
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**366**		4.95	0.391	mg/Kg			01/23/24 23:40	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Client Sample ID: SB-14-S-1'-240119
Date Collected: 01/19/24 13:10
Date Received: 01/23/24 13:01

Lab Sample ID: 880-38323-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.8		4.98	0.393	mg/Kg			01/23/24 23:47	1

Client Sample ID: SB-14-S-2'-240119
Date Collected: 01/19/24 13:20
Date Received: 01/23/24 13:01

Lab Sample ID: 880-38323-5
Matrix: Solid

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		01/29/24 13:34	02/01/24 16:24	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/29/24 13:34	02/01/24 16:24	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/29/24 13:34	02/01/24 16:24	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/29/24 13:34	02/01/24 16:24	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/29/24 13:34	02/01/24 16:24	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/29/24 13:34	02/01/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/29/24 13:34*	*02/01/24 16:24*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*01/29/24 13:34*	*02/01/24 16:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			02/01/24 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.8		50.3	15.1	mg/Kg			01/27/24 12:08	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	30.5	J *1	50.3	15.1	mg/Kg		01/25/24 09:22	01/27/24 12:08	1
Diesel Range Organics (Over C10-C28)	38.3	J B	50.3	15.1	mg/Kg		01/25/24 09:22	01/27/24 12:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg		01/25/24 09:22	01/27/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*01/25/24 09:22*	*01/27/24 12:08*	*1*
o-Terphenyl	*117*		*70 - 130*	*01/25/24 09:22*	*01/27/24 12:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.7		5.04	0.398	mg/Kg			01/23/24 23:54	1

Client Sample ID: SB-14-S-4'-240119
Date Collected: 01/19/24 13:30
Date Received: 01/23/24 13:01

Lab Sample ID: 880-38323-6
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	607		5.03	0.397	mg/Kg			01/24/24 00:14	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Client Sample ID: SB-15-S-1'-240119
Date Collected: 01/19/24 13:50
Date Received: 01/23/24 13:01

Lab Sample ID: 880-38323-7
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**122**		5.00	0.395	mg/Kg			01/24/24 00:21	1

Client Sample ID: SB-15-S-2'-240119
Date Collected: 01/19/24 14:00
Date Received: 01/23/24 13:01

Lab Sample ID: 880-38323-8
Matrix: Solid

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		01/26/24 11:33	01/31/24 14:21	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		01/26/24 11:33	01/31/24 14:21	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/26/24 11:33	01/31/24 14:21	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/26/24 11:33	01/31/24 14:21	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		01/26/24 11:33	01/31/24 14:21	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/26/24 11:33	01/31/24 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*01/26/24 11:33*	*01/31/24 14:21*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*01/26/24 11:33*	*01/31/24 14:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			01/31/24 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	**64.9**		50.1	15.0	mg/Kg			01/27/24 12:30	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	**29.0**	**J *1**	50.1	15.0	mg/Kg		01/25/24 09:22	01/27/24 12:30	1
Diesel Range Organics (Over C10-C28)	**35.9**	**J B**	50.1	15.0	mg/Kg		01/25/24 09:22	01/27/24 12:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		01/25/24 09:22	01/27/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*154*	*S1+*	*70 - 130*	*01/25/24 09:22*	*01/27/24 12:30*	*1*
o-Terphenyl	*123*		*70 - 130*	*01/25/24 09:22*	*01/27/24 12:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		24.9	1.96	mg/Kg			01/24/24 00:28	5

Client Sample ID: SB-15-S-4'-240119
Date Collected: 01/19/24 14:10
Date Received: 01/23/24 13:01

Lab Sample ID: 880-38323-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1250**		24.9	1.96	mg/Kg			01/24/24 00:35	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38323-2	SB-13-S-2'-240119	66 S1-	101
880-38323-5	SB-14-S-2'-240119	89	72
880-38323-8	SB-15-S-2'-240119	79	81
LCS 880-71692/1-A	Lab Control Sample	112	102
LCS 880-71830/1-A	Lab Control Sample	119	101
LCSD 880-71692/2-A	Lab Control Sample Dup	104	94
LCSD 880-71830/2-A	Lab Control Sample Dup	118	103
MB 880-71692/5-A	Method Blank	79	79
MB 880-71830/5-A	Method Blank	72	86

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38323-2	SB-13-S-2'-240119	184 S1+	147 S1+
880-38323-2 MS	SB-13-S-2'-240119	129	91
880-38323-2 MSD	SB-13-S-2'-240119	130	89
880-38323-5	SB-14-S-2'-240119	148 S1+	117
880-38323-8	SB-15-S-2'-240119	154 S1+	123
LCS 880-71570/2-A	Lab Control Sample	86	76
LCSD 880-71570/3-A	Lab Control Sample Dup	95	90
MB 880-71570/1-A	Method Blank	167 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71692/5-A
Matrix: Solid
Analysis Batch: 72000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/26/24 11:33	01/31/24 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*01/26/24 11:33*	*01/31/24 11:14*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*01/26/24 11:33*	*01/31/24 11:14*	*1*

Lab Sample ID: LCS 880-71692/1-A
Matrix: Solid
Analysis Batch: 72000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1010		mg/Kg		101	70 - 130
Toluene	0.100	0.09485		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09005		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1985		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1164		mg/Kg		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-71692/2-A
Matrix: Solid
Analysis Batch: 72000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71692

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09042		mg/Kg		90	70 - 130	11	35
Toluene	0.100	0.09201		mg/Kg		92	70 - 130	3	35
Ethylbenzene	0.100	0.09967		mg/Kg		100	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2074		mg/Kg		104	70 - 130	4	35
o-Xylene	0.100	0.09905		mg/Kg		99	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-71830/5-A
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/29/24 13:34	02/01/24 10:52	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/29/24 13:34	02/01/24 10:52	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

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

Lab Sample ID: MB 880-71830/5-A
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/29/24 13:34	02/01/24 10:52	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/29/24 13:34	02/01/24 10:52	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/29/24 13:34	02/01/24 10:52	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/29/24 13:34	02/01/24 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*01/29/24 13:34*	*02/01/24 10:52*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/29/24 13:34*	*02/01/24 10:52*	*1*

Lab Sample ID: LCS 880-71830/1-A
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09795		mg/Kg		98	70 - 130
Toluene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1207		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	0.200	0.2505		mg/Kg		125	70 - 130
o-Xylene	0.100	0.1200		mg/Kg		120	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-71830/2-A
Matrix: Solid
Analysis Batch: 72093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71830

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09384		mg/Kg		94	70 - 130	4	35
Toluene	0.100	0.09496		mg/Kg		95	70 - 130	8	35
Ethylbenzene	0.100	0.1144		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2345		mg/Kg		117	70 - 130	7	35
o-Xylene	0.100	0.1120		mg/Kg		112	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-71570/1-A
Matrix: Solid
Analysis Batch: 71727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/25/24 09:22	01/27/24 08:06	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

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

Lab Sample ID: MB 880-71570/1-A
Matrix: Solid
Analysis Batch: 71727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	21.62	J	50.0	15.0	mg/Kg		01/25/24 09:22	01/27/24 08:06	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/25/24 09:22	01/27/24 08:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*167*	*S1+*	*70 - 130*	*01/25/24 09:22*	*01/27/24 08:06*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*01/25/24 09:22*	*01/27/24 08:06*	*1*

Lab Sample ID: LCS 880-71570/2-A
Matrix: Solid
Analysis Batch: 71727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71570

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	921.3		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	916.2		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Lab Sample ID: LCSD 880-71570/3-A
Matrix: Solid
Analysis Batch: 71727

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71570

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1162	*1	mg/Kg		116	70 - 130	23	20
Diesel Range Organics (Over C10-C28)			1000	920.9		mg/Kg		92	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: 880-38323-2 MS
Matrix: Solid
Analysis Batch: 71727

Client Sample ID: SB-13-S-2'-240119
Prep Type: Total/NA
Prep Batch: 71570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	16.7	J *1	992	895.0		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	32.6	J B	992	1189		mg/Kg		117	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*129*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

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

Lab Sample ID: 880-38323-2 MSD — **Client Sample ID: SB-13-S-2'-240119**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71727 — **Prep Batch: 71570**

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	16.7	J *1	992	918.0		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	32.6	J B	992	1187		mg/Kg		116	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*130*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71460/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			01/23/24 22:52	1

Lab Sample ID: LCS 880-71460/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.4		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-71460/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.8		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-38323-1 MS — **Client Sample ID: SB-13-S-1'-240119**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1190		1250	2495		mg/Kg		105	90 - 110

Lab Sample ID: 880-38323-1 MSD — **Client Sample ID: SB-13-S-1'-240119**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1190		1250	2483		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

GC VOA

Prep Batch: 71692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-8	SB-15-S-2'-240119	Total/NA	Solid	5030B	
MB 880-71692/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-71692/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-71692/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 71830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-2	SB-13-S-2'-240119	Total/NA	Solid	5030B	
880-38323-5	SB-14-S-2'-240119	Total/NA	Solid	5030B	
MB 880-71830/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-71830/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-71830/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 72000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-8	SB-15-S-2'-240119	Total/NA	Solid	8021B	71692
MB 880-71692/5-A	Method Blank	Total/NA	Solid	8021B	71692
LCS 880-71692/1-A	Lab Control Sample	Total/NA	Solid	8021B	71692
LCSD 880-71692/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71692

Analysis Batch: 72064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-2	SB-13-S-2'-240119	Total/NA	Solid	Total BTEX	
880-38323-5	SB-14-S-2'-240119	Total/NA	Solid	Total BTEX	
880-38323-8	SB-15-S-2'-240119	Total/NA	Solid	Total BTEX	

Analysis Batch: 72093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-2	SB-13-S-2'-240119	Total/NA	Solid	8021B	71830
880-38323-5	SB-14-S-2'-240119	Total/NA	Solid	8021B	71830
MB 880-71830/5-A	Method Blank	Total/NA	Solid	8021B	71830
LCS 880-71830/1-A	Lab Control Sample	Total/NA	Solid	8021B	71830
LCSD 880-71830/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71830

GC Semi VOA

Prep Batch: 71570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-2	SB-13-S-2'-240119	Total/NA	Solid	8015NM Prep	
880-38323-5	SB-14-S-2'-240119	Total/NA	Solid	8015NM Prep	
880-38323-8	SB-15-S-2'-240119	Total/NA	Solid	8015NM Prep	
MB 880-71570/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71570/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71570/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38323-2 MS	SB-13-S-2'-240119	Total/NA	Solid	8015NM Prep	
880-38323-2 MSD	SB-13-S-2'-240119	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-2	SB-13-S-2'-240119	Total/NA	Solid	8015B NM	71570
880-38323-5	SB-14-S-2'-240119	Total/NA	Solid	8015B NM	71570

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

GC Semi VOA (Continued)

Analysis Batch: 71727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-8	SB-15-S-2'-240119	Total/NA	Solid	8015B NM	71570
MB 880-71570/1-A	Method Blank	Total/NA	Solid	8015B NM	71570
LCS 880-71570/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71570
LCSD 880-71570/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71570
880-38323-2 MS	SB-13-S-2'-240119	Total/NA	Solid	8015B NM	71570
880-38323-2 MSD	SB-13-S-2'-240119	Total/NA	Solid	8015B NM	71570

Analysis Batch: 71918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-2	SB-13-S-2'-240119	Total/NA	Solid	8015 NM	
880-38323-5	SB-14-S-2'-240119	Total/NA	Solid	8015 NM	
880-38323-8	SB-15-S-2'-240119	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-1	SB-13-S-1'-240119	Soluble	Solid	DI Leach	
880-38323-2	SB-13-S-2'-240119	Soluble	Solid	DI Leach	
880-38323-3	SB-13-S-4'-240119	Soluble	Solid	DI Leach	
880-38323-4	SB-14-S-1'-240119	Soluble	Solid	DI Leach	
880-38323-5	SB-14-S-2'-240119	Soluble	Solid	DI Leach	
880-38323-6	SB-14-S-4'-240119	Soluble	Solid	DI Leach	
880-38323-7	SB-15-S-1'-240119	Soluble	Solid	DI Leach	
880-38323-8	SB-15-S-2'-240119	Soluble	Solid	DI Leach	
880-38323-9	SB-15-S-4'-240119	Soluble	Solid	DI Leach	
MB 880-71460/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71460/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71460/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38323-1 MS	SB-13-S-1'-240119	Soluble	Solid	DI Leach	
880-38323-1 MSD	SB-13-S-1'-240119	Soluble	Solid	DI Leach	

Analysis Batch: 71463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38323-1	SB-13-S-1'-240119	Soluble	Solid	300.0	71460
880-38323-2	SB-13-S-2'-240119	Soluble	Solid	300.0	71460
880-38323-3	SB-13-S-4'-240119	Soluble	Solid	300.0	71460
880-38323-4	SB-14-S-1'-240119	Soluble	Solid	300.0	71460
880-38323-5	SB-14-S-2'-240119	Soluble	Solid	300.0	71460
880-38323-6	SB-14-S-4'-240119	Soluble	Solid	300.0	71460
880-38323-7	SB-15-S-1'-240119	Soluble	Solid	300.0	71460
880-38323-8	SB-15-S-2'-240119	Soluble	Solid	300.0	71460
880-38323-9	SB-15-S-4'-240119	Soluble	Solid	300.0	71460
MB 880-71460/1-A	Method Blank	Soluble	Solid	300.0	71460
LCS 880-71460/2-A	Lab Control Sample	Soluble	Solid	300.0	71460
LCSD 880-71460/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71460
880-38323-1 MS	SB-13-S-1'-240119	Soluble	Solid	300.0	71460
880-38323-1 MSD	SB-13-S-1'-240119	Soluble	Solid	300.0	71460

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Client Sample ID: SB-13-S-1'-240119
Lab Sample ID: 880-38323-1
Date Collected: 01/19/24 12:40
Matrix: Solid
Date Received: 01/23/24 13:01

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	71460	01/23/24 14:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71463	01/24/24 10:19	SMC	EET MID

Client Sample ID: SB-13-S-2'-240119
Lab Sample ID: 880-38323-2
Date Collected: 01/19/24 12:50
Matrix: Solid
Date Received: 01/23/24 13:01

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	71830	01/29/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72093	02/01/24 16:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72064	02/01/24 16:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			71918	01/27/24 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 11:04	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71460	01/23/24 14:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71463	01/23/24 23:33	SMC	EET MID

Client Sample ID: SB-13-S-4'-240119
Lab Sample ID: 880-38323-3
Date Collected: 01/19/24 13:00
Matrix: Solid
Date Received: 01/23/24 13:01

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	71460	01/23/24 14:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71463	01/23/24 23:40	SMC	EET MID

Client Sample ID: SB-14-S-1'-240119
Lab Sample ID: 880-38323-4
Date Collected: 01/19/24 13:10
Matrix: Solid
Date Received: 01/23/24 13:01

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	71460	01/23/24 14:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71463	01/23/24 23:47	SMC	EET MID

Client Sample ID: SB-14-S-2'-240119
Lab Sample ID: 880-38323-5
Date Collected: 01/19/24 13:20
Matrix: Solid
Date Received: 01/23/24 13:01

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	71830	01/29/24 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72093	02/01/24 16:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72064	02/01/24 16:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			71918	01/27/24 12:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 12:08	SM	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Client Sample ID: SB-14-S-2'-240119
Lab Sample ID: 880-38323-5
Date Collected: 01/19/24 13:20
Matrix: Solid
Date Received: 01/23/24 13:01

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	71460	01/23/24 14:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71463	01/23/24 23:54	SMC	EET MID

Client Sample ID: SB-14-S-4'-240119
Lab Sample ID: 880-38323-6
Date Collected: 01/19/24 13:30
Matrix: Solid
Date Received: 01/23/24 13:01

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	71460	01/23/24 14:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71463	01/24/24 00:14	SMC	EET MID

Client Sample ID: SB-15-S-1'-240119
Lab Sample ID: 880-38323-7
Date Collected: 01/19/24 13:50
Matrix: Solid
Date Received: 01/23/24 13:01

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	71460	01/23/24 14:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71463	01/24/24 00:21	SMC	EET MID

Client Sample ID: SB-15-S-2'-240119
Lab Sample ID: 880-38323-8
Date Collected: 01/19/24 14:00
Matrix: Solid
Date Received: 01/23/24 13:01

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	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72064	01/31/24 14:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			71918	01/27/24 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 12:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71460	01/23/24 14:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71463	01/24/24 00:28	SMC	EET MID

Client Sample ID: SB-15-S-4'-240119
Lab Sample ID: 880-38323-9
Date Collected: 01/19/24 14:10
Matrix: Solid
Date Received: 01/23/24 13:01

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	71460	01/23/24 14:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71463	01/24/24 00:35	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: WLU 41

Job ID: 880-38323-1
SDG: Lovington, 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
Total BTEX		Solid	Total BTEX

Method Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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.
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 US Inc
Project/Site: WLU 41

Job ID: 880-38323-1
SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38323-1	SB-13-S-1'-240119	Solid	01/19/24 12:40	01/23/24 13:01
880-38323-2	SB-13-S-2'-240119	Solid	01/19/24 12:50	01/23/24 13:01
880-38323-3	SB-13-S-4'-240119	Solid	01/19/24 13:00	01/23/24 13:01
880-38323-4	SB-14-S-1'-240119	Solid	01/19/24 13:10	01/23/24 13:01
880-38323-5	SB-14-S-2'-240119	Solid	01/19/24 13:20	01/23/24 13:01
880-38323-6	SB-14-S-4'-240119	Solid	01/19/24 13:30	01/23/24 13:01
880-38323-7	SB-15-S-1'-240119	Solid	01/19/24 13:50	01/23/24 13:01
880-38323-8	SB-15-S-2'-240119	Solid	01/19/24 14:00	01/23/24 13:01
880-38323-9	SB-15-S-4'-240119	Solid	01/19/24 14:10	01/23/24 13:01

Released to Imaging: 10/30/2024 9:04:02 AM
Received by OCD: 10/23/2024 1:19:31 PM

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

880-38323 Chain of Custody

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(s):
Client Contact: Mr Morgan Jordan	Phone: 575-390-4618	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: ARCADIS US Inc	PWSID:		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days):		
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: WLU 41	Project #: ~~88002020~~ 30209657		
Site: Lovington, NM	SSOW#:		

Analysis Requested

Preservation Codes

A HCL	M Hexane		
B NaOH	N None		
C Zn Acetate	O AsNaO2		
D Nitric Acid	P Na2O4S		
E NaHSO4	Q Na2SO3		
F MeOH	R Na2S2O3		
G Amchlor	S H2SO4		
H Ascorbic Acid	T TSP Dodecahydrate		
I Ice	U Acetone		
J DI Water	V MCAA		
K - EDTA	W pH 4-5		
L - EDA	Y Trizma		
	Z other (specify)		

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~300-ORGFM_28D~~, 8015MOD_NM, 8021B	300-ORGFM_28D	Total Number of containers	Special Instructions/Note
			Preservation Code:				N			
SB-13-S-1'-240119	1/19/24	1240	G	Solid				X		
SB-13-S-2'-240119		1250		Solid			X	X		
SB-13-S-4'-240119		1300		Solid				X		
SB-14-S-1'-240119		1310		Solid				X		
SB-14-S-2'-240119		1320		Solid			X	X		
SB-14-S-4'-240119		1330		Solid				X		
SB-15-S-1'-240119		1350		Solid				X		
SB-15-S-2'-240119		1400		Solid			X	X		
SB-15-S-4'-240119	X	1410	X	Solid				X		
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/22/24 1555	Arcadis	Marian Carrillo	1-22-24 3:55	
2				Marian Carrillo		
3					1/23/24 1301	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 1.3/1.5

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-38323-1
SDG Number: Lovington, NM

Login Number: 38323
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 2/12/2024 10:49:31 AM

JOB DESCRIPTION

WLU 41
Lovington, NM

JOB NUMBER

880-38486-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 10/30/2024 9:04:02 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
2/12/2024 10:49:31 AM

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

Client: ARCADIS US Inc
Project/Site: WLU 41

Laboratory Job ID: 880-38486-1
SDG: Lovington, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS US Inc
Project: WLU 41

Job ID: 880-38486-1

Job ID: 880-38486-1 Eurofins Midland

Job Narrative
880-38486-1

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 1/25/2024 2:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SB-16-S-1'-240122 (880-38486-1), SB-16-S-2'-240122 (880-38486-2), SB-17-S-1'-240122 (880-38486-3), SB-17-S-2'-240122 (880-38486-4), SB-18-S-1'-240122 (880-38486-5), SB-18-S-2'-240122 (880-38486-6), SB-18-S-4'-240122 (880-38486-7), SB-19-S-1'-240122 (880-38486-8), SB-19-S-2'-240122 (880-38486-9), SB-19-S-3'-240122 (880-38486-10), SB-20-S-1'-240122 (880-38486-11), SB-20-S-2'-240122 (880-38486-12), SB-20-S-4'-240122 (880-38486-13), SB-21-S-1'-240122 (880-38486-14), SB-21-S-2'-240122 (880-38486-15) and SB-21-S-4'-240122 (880-38486-16).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72060 and analytical batch 880-72197 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: The continuing calibration verification (CCV) associated with batch 880-72197 recovered under the lower control limit for Benzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-21-S-2'-240122 (880-38486-15). 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: (880-38486-A-2-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71863 and analytical batch 880-72288 was outside the control limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-71866 and analytical batch 880-72288 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: Surrogate recovery for the following samples were outside the upper control limit: SB-16-S-2'-240122 (880-38486-2), SB-17-S-2'-240122 (880-38486-4), SB-18-S-2'-240122 (880-38486-6) and SB-21-S-2'-240122 (880-38486-15). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-19-S-2'-240122 (880-38486-9) and SB-20-S-2'-240122 (880-38486-12). Evidence of matrix interference is present; therefore, re-extraction and/or

Case Narrative

Client: ARCADIS US Inc
Project: WLU 41

Job ID: 880-38486-1

Job ID: 880-38486-1 (Continued) Eurofins Midland

re-analysis was not performed.

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

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-16-S-1'-240122

Lab Sample ID: 880-38486-1
Matrix: Solid
Date Collected: 01/22/24 08:30
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		5.01	0.396	mg/Kg			01/26/24 16:34	1

Client Sample ID: SB-16-S-2'-240122

Lab Sample ID: 880-38486-2
Matrix: Solid
Date Collected: 01/22/24 08:40
Date Received: 01/25/24 14:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U F1 F2	0.00199	0.000383	mg/Kg		01/31/24 14:09	02/02/24 17:08	1
Toluene	<0.000453	U F1	0.00199	0.000453	mg/Kg		01/31/24 14:09	02/02/24 17:08	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/31/24 14:09	02/02/24 17:08	1
m-Xylene & p-Xylene	<0.00100	U F1 F2	0.00398	0.00100	mg/Kg		01/31/24 14:09	02/02/24 17:08	1
o-Xylene	<0.000342	U F1 F2	0.00199	0.000342	mg/Kg		01/31/24 14:09	02/02/24 17:08	1
Xylenes, Total	<0.00100	U F1 F2	0.00398	0.00100	mg/Kg		01/31/24 14:09	02/02/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/31/24 14:09*	*02/02/24 17:08*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/31/24 14:09*	*02/02/24 17:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			02/02/24 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<25.0	U	50.0	25.0	mg/Kg			02/05/24 03:21	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	<25.0	U	50.0	25.0	mg/Kg		01/29/24 11:31	02/05/24 03:21	1
Diesel Range Organics (Over C10-C28)	<25.0	U	50.0	25.0	mg/Kg		01/29/24 11:31	02/05/24 03:21	1
OII Range Organics (Over C28-C36)	<25.0	U	50.0	25.0	mg/Kg		01/29/24 11:31	02/05/24 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*01/29/24 11:31*	*02/05/24 03:21*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*01/29/24 11:31*	*02/05/24 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	801		4.96	0.392	mg/Kg			01/26/24 13:41	1

Client Sample ID: SB-17-S-1'-240122

Lab Sample ID: 880-38486-3
Matrix: Solid
Date Collected: 01/22/24 09:00
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.91		4.95	0.391	mg/Kg			01/26/24 14:02	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-17-S-2'-240122

Lab Sample ID: 880-38486-4
Matrix: Solid
Date Collected: 01/22/24 09:10
Date Received: 01/25/24 14:56

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		01/31/24 14:09	02/02/24 22:02	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/31/24 14:09	02/02/24 22:02	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/31/24 14:09	02/02/24 22:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/31/24 14:09	02/02/24 22:02	1
o-Xylene	**0.000463**	**J**	0.00200	0.000343	mg/Kg		01/31/24 14:09	02/02/24 22:02	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/31/24 14:09	02/02/24 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*01/31/24 14:09*	*02/02/24 22:02*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/31/24 14:09*	*02/02/24 22:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			02/02/24 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<25.1	U	50.1	25.1	mg/Kg			02/05/24 03:42	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	<25.1	U	50.1	25.1	mg/Kg		01/29/24 11:31	02/05/24 03:42	1
Diesel Range Organics (Over C10-C28)	<25.1	U	50.1	25.1	mg/Kg		01/29/24 11:31	02/05/24 03:42	1
OII Range Organics (Over C28-C36)	<25.1	U	50.1	25.1	mg/Kg		01/29/24 11:31	02/05/24 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*01/29/24 11:31*	*02/05/24 03:42*	*1*
o-Terphenyl	*170*	*S1+*	*70 - 130*	*01/29/24 11:31*	*02/05/24 03:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.9**		4.95	0.391	mg/Kg			01/26/24 14:09	1

Client Sample ID: SB-18-S-1'-240122

Lab Sample ID: 880-38486-5
Matrix: Solid
Date Collected: 01/22/24 09:40
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.39**	**J**	4.99	0.394	mg/Kg			01/26/24 14:16	1

Client Sample ID: SB-18-S-2'-240122

Lab Sample ID: 880-38486-6
Matrix: Solid
Date Collected: 01/22/24 09:50
Date Received: 01/25/24 14:56

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		01/31/24 14:09	02/02/24 22:23	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		01/31/24 14:09	02/02/24 22:23	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		01/31/24 14:09	02/02/24 22:23	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-18-S-2'-240122

Lab Sample ID: 880-38486-6
Matrix: Solid
Date Collected: 01/22/24 09:50
Date Received: 01/25/24 14:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		01/31/24 14:09	02/02/24 22:23	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		01/31/24 14:09	02/02/24 22:23	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		01/31/24 14:09	02/02/24 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/31/24 14:09*	*02/02/24 22:23*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/31/24 14:09*	*02/02/24 22:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			02/02/24 22:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<25.2	U	50.4	25.2	mg/Kg			02/05/24 04:02	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	<25.2	U	50.4	25.2	mg/Kg		01/29/24 11:31	02/05/24 04:02	1
Diesel Range Organics (Over C10-C28)	<25.2	U	50.4	25.2	mg/Kg		01/29/24 11:31	02/05/24 04:02	1
OII Range Organics (Over C28-C36)	<25.2	U	50.4	25.2	mg/Kg		01/29/24 11:31	02/05/24 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*01/29/24 11:31*	*02/05/24 04:02*	*1*
o-Terphenyl	*149*	*S1+*	*70 - 130*	*01/29/24 11:31*	*02/05/24 04:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**465**		5.00	0.395	mg/Kg			01/26/24 14:22	1

Client Sample ID: SB-18-S-4'-240122

Lab Sample ID: 880-38486-7
Matrix: Solid
Date Collected: 01/22/24 10:00
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**794**		24.9	1.97	mg/Kg			01/26/24 14:29	5

Client Sample ID: SB-19-S-1'-240122

Lab Sample ID: 880-38486-8
Matrix: Solid
Date Collected: 01/22/24 10:30
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.7**		5.03	0.397	mg/Kg			01/26/24 14:37	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-19-S-2'-240122

Lab Sample ID: 880-38486-9
Matrix: Solid
Date Collected: 01/22/24 10:40
Date Received: 01/25/24 14:56

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		01/31/24 14:09	02/02/24 22:43	1
Toluene	**0.000577**	**J**	0.00199	0.000454	mg/Kg		01/31/24 14:09	02/02/24 22:43	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/31/24 14:09	02/02/24 22:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/31/24 14:09	02/02/24 22:43	1
o-Xylene	**0.000714**	**J**	0.00199	0.000343	mg/Kg		01/31/24 14:09	02/02/24 22:43	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/31/24 14:09	02/02/24 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/31/24 14:09*	*02/02/24 22:43*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/31/24 14:09*	*02/02/24 22:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00129**	**J**	0.00398	0.00101	mg/Kg			02/02/24 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**194**		50.1	25.0	mg/Kg			02/05/24 04:23	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	<25.0	U	50.1	25.0	mg/Kg		01/29/24 11:31	02/05/24 04:23	1
Diesel Range Organics (Over C10-C28)	**118**		50.1	25.0	mg/Kg		01/29/24 11:31	02/05/24 04:23	1
Oil Range Organics (Over C28-C36)	**75.5**		50.1	25.0	mg/Kg		01/29/24 11:31	02/05/24 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*01/29/24 11:31*	*02/05/24 04:23*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*01/29/24 11:31*	*02/05/24 04:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.79**		5.05	0.399	mg/Kg			01/26/24 15:00	1

Client Sample ID: SB-19-S-3'-240122

Lab Sample ID: 880-38486-10
Matrix: Solid
Date Collected: 01/22/24 10:50
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.9**		5.04	0.398	mg/Kg			01/26/24 15:08	1

Client Sample ID: SB-20-S-1'-240122

Lab Sample ID: 880-38486-11
Matrix: Solid
Date Collected: 01/22/24 11:10
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.04**		4.99	0.394	mg/Kg			01/26/24 15:31	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-20-S-2'-240122

Lab Sample ID: 880-38486-12
Matrix: Solid
Date Collected: 01/22/24 11:20
Date Received: 01/25/24 14:56

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		01/31/24 14:09	02/03/24 01:06	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		01/31/24 14:09	02/03/24 01:06	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/31/24 14:09	02/03/24 01:06	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/31/24 14:09	02/03/24 01:06	1
o-Xylene	**0.000372**	**J**	0.00199	0.000343	mg/Kg		01/31/24 14:09	02/03/24 01:06	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/31/24 14:09	02/03/24 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/31/24 14:09*	*02/03/24 01:06*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/31/24 14:09*	*02/03/24 01:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			02/03/24 01:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**25.4**	**J**	49.7	24.9	mg/Kg			02/05/24 04:44	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	<24.9	U	49.7	24.9	mg/Kg		01/29/24 11:31	02/05/24 04:44	1
Diesel Range Organics (Over C10-C28)	**25.4**	**J**	49.7	24.9	mg/Kg		01/29/24 11:31	02/05/24 04:44	1
OII Range Organics (Over C28-C36)	<24.9	U	49.7	24.9	mg/Kg		01/29/24 11:31	02/05/24 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*01/29/24 11:31*	*02/05/24 04:44*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*01/29/24 11:31*	*02/05/24 04:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		24.9	1.96	mg/Kg			01/26/24 15:39	5

Client Sample ID: SB-20-S-4'-240122

Lab Sample ID: 880-38486-13
Matrix: Solid
Date Collected: 01/22/24 11:30
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		49.6	3.92	mg/Kg			01/26/24 15:47	10

Client Sample ID: SB-21-S-1'-240122

Lab Sample ID: 880-38486-14
Matrix: Solid
Date Collected: 01/22/24 11:50
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2540**		25.1	1.98	mg/Kg			01/26/24 15:55	5

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-21-S-2'-240122

Lab Sample ID: 880-38486-15
Matrix: Solid
Date Collected: 01/22/24 12:00
Date Received: 01/25/24 14:56

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		02/02/24 14:51	02/04/24 13:43	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		02/02/24 14:51	02/04/24 13:43	1
Ethylbenzene	<0.000562	U *+	0.00199	0.000562	mg/Kg		02/02/24 14:51	02/04/24 13:43	1
m-Xylene & p-Xylene	<0.00100	U *+	0.00398	0.00100	mg/Kg		02/02/24 14:51	02/04/24 13:43	1
o-Xylene	<0.000342	U *+	0.00199	0.000342	mg/Kg		02/02/24 14:51	02/04/24 13:43	1
Xylenes, Total	<0.00100	U *+	0.00398	0.00100	mg/Kg		02/02/24 14:51	02/04/24 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*02/02/24 14:51*	*02/04/24 13:43*	*1*
1,4-Difluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*02/02/24 14:51*	*02/04/24 13:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			02/04/24 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<25.0	U	50.0	25.0	mg/Kg			02/05/24 05:04	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	<25.0	U	50.0	25.0	mg/Kg		01/29/24 11:31	02/05/24 05:04	1
Diesel Range Organics (Over C10-C28)	<25.0	U	50.0	25.0	mg/Kg		01/29/24 11:31	02/05/24 05:04	1
OII Range Organics (Over C28-C36)	<25.0	U	50.0	25.0	mg/Kg		01/29/24 11:31	02/05/24 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*01/29/24 11:31*	*02/05/24 05:04*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*01/29/24 11:31*	*02/05/24 05:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1290**		25.2	1.99	mg/Kg			01/26/24 16:03	5

Client Sample ID: SB-21-S-4'-240122

Lab Sample ID: 880-38486-16
Matrix: Solid
Date Collected: 01/22/24 12:10
Date Received: 01/25/24 14:56

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		25.2	1.99	mg/Kg			01/26/24 16:10	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38486-2	SB-16-S-2'-240122	93	92
880-38486-2 MS	SB-16-S-2'-240122	115	93
880-38486-2 MSD	SB-16-S-2'-240122	233 S1+	129
880-38486-4	SB-17-S-2'-240122	91	99
880-38486-6	SB-18-S-2'-240122	107	96
880-38486-9	SB-19-S-2'-240122	115	101
880-38486-12	SB-20-S-2'-240122	110	96
880-38486-15	SB-21-S-2'-240122	86	65 S1-
LCS 880-71866/1-A	Lab Control Sample	119	87
LCS 880-72060/1-A	Lab Control Sample	112	94
LCSD 880-71866/2-A	Lab Control Sample Dup	121	99
LCSD 880-72060/2-A	Lab Control Sample Dup	114	93
MB 880-71863/5-A	Method Blank	74	68 S1-
MB 880-71866/5-A	Method Blank	80	79
MB 880-72060/5-A	Method Blank	110	108

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)
880-38486-2	SB-16-S-2'-240122	116	132 S1+
880-38486-4	SB-17-S-2'-240122	149 S1+	170 S1+
880-38486-6	SB-18-S-2'-240122	131 S1+	149 S1+
880-38486-9	SB-19-S-2'-240122	122	139 S1+
880-38486-12	SB-20-S-2'-240122	120	136 S1+
880-38486-15	SB-21-S-2'-240122	123	139 S1+
LCS 870-17903/1-A	Lab Control Sample	129	127
LCSD 870-17903/2-A	Lab Control Sample Dup	109	123
MB 870-17903/3-A	Method Blank	126	126

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71863/5-A
Matrix: Solid
Analysis Batch: 72288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/29/24 14:44	02/03/24 20:12	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/29/24 14:44	02/03/24 20:12	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/29/24 14:44	02/03/24 20:12	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/29/24 14:44	02/03/24 20:12	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/29/24 14:44	02/03/24 20:12	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/29/24 14:44	02/03/24 20:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*01/29/24 14:44*	*02/03/24 20:12*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*01/29/24 14:44*	*02/03/24 20:12*	*1*

Lab Sample ID: MB 880-71866/5-A
Matrix: Solid
Analysis Batch: 72288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/29/24 14:51	02/04/24 06:50	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/29/24 14:51	02/04/24 06:50	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/29/24 14:51	02/04/24 06:50	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/29/24 14:51	02/04/24 06:50	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/29/24 14:51	02/04/24 06:50	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/29/24 14:51	02/04/24 06:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*01/29/24 14:51*	*02/04/24 06:50*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*01/29/24 14:51*	*02/04/24 06:50*	*1*

Lab Sample ID: LCS 880-71866/1-A
Matrix: Solid
Analysis Batch: 72288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1043		mg/Kg		104	70 - 130
Toluene	0.100	0.1011		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1251		mg/Kg		125	70 - 130
m-Xylene & p-Xylene	0.200	0.2514		mg/Kg		126	70 - 130
o-Xylene	0.100	0.1221		mg/Kg		122	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: LCSD 880-71866/2-A
Matrix: Solid
Analysis Batch: 72288

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71866

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1076		mg/Kg		108	70 - 130	3	35

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

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

Lab Sample ID: LCSD 880-71866/2-A
Matrix: Solid
Analysis Batch: 72288

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71866

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1186		mg/Kg		119	70 - 130	16	35
Ethylbenzene			0.100	0.1460	*+	mg/Kg		146	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.2786	*+	mg/Kg		139	70 - 130	10	35
o-Xylene			0.100	0.1353	*+	mg/Kg		135	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-72060/5-A
Matrix: Solid
Analysis Batch: 72197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/31/24 14:09	02/02/24 16:40	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/31/24 14:09	02/02/24 16:40	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/31/24 14:09	02/02/24 16:40	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/31/24 14:09	02/02/24 16:40	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/31/24 14:09	02/02/24 16:40	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/31/24 14:09	02/02/24 16:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/31/24 14:09*	*02/02/24 16:40*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/31/24 14:09*	*02/02/24 16:40*	*1*

Lab Sample ID: LCS 880-72060/1-A
Matrix: Solid
Analysis Batch: 72197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72060

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08384		mg/Kg		84	70 - 130		
Toluene			0.100	0.08772		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.09472		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1609		mg/Kg		80	70 - 130		
o-Xylene			0.100	0.08406		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-72060/2-A
Matrix: Solid
Analysis Batch: 72197

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72060

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08735		mg/Kg		87	70 - 130	4	35
Toluene			0.100	0.09318		mg/Kg		93	70 - 130	6	35
Ethylbenzene			0.100	0.1149		mg/Kg		115	70 - 130	19	35

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

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

Lab Sample ID: LCSD 880-72060/2-A
Matrix: Solid
Analysis Batch: 72197

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72060

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1856		mg/Kg		93	70 - 130	14	35
o-Xylene			0.100	0.08348		mg/Kg		83	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-38486-2 MS
Matrix: Solid
Analysis Batch: 72197

Client Sample ID: SB-16-S-2'-240122
Prep Type: Total/NA
Prep Batch: 72060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000383	U F1 F2	0.0996	0.06222	F1	mg/Kg		62	70 - 130
Toluene	<0.000453	U F1	0.0996	0.06767	F1	mg/Kg		68	70 - 130
Ethylbenzene	<0.000562	U	0.0996	0.08010		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00100	U F1 F2	0.199	0.1506		mg/Kg		76	70 - 130
o-Xylene	<0.000342	U F1 F2	0.0996	0.07395		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-38486-2 MSD
Matrix: Solid
Analysis Batch: 72197

Client Sample ID: SB-16-S-2'-240122
Prep Type: Total/NA
Prep Batch: 72060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U F1 F2	0.0990	0.1140	F2	mg/Kg		115	70 - 130	59	35
Toluene	<0.000453	U F1	0.0990	0.07298		mg/Kg		74	70 - 130	8	35
Ethylbenzene	<0.000562	U	0.0990	0.09438		mg/Kg		95	70 - 130	16	35
m-Xylene & p-Xylene	<0.00100	U F1 F2	0.198	0.3115	F1 F2	mg/Kg		157	70 - 130	70	35
o-Xylene	<0.000342	U F1 F2	0.0990	0.1636	F1 F2	mg/Kg		165	70 - 130	75	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*233*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*

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

Lab Sample ID: MB 870-17903/3-A
Matrix: Solid
Analysis Batch: 17969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<25.0	U	50.0	25.0	mg/Kg		01/29/24 11:31	02/04/24 21:09	1
Diesel Range Organics (Over C10-C28)	<25.0	U	50.0	25.0	mg/Kg		01/29/24 11:31	02/04/24 21:09	1
OII Range Organics (Over C28-C36)	<25.0	U	50.0	25.0	mg/Kg		01/29/24 11:31	02/04/24 21:09	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	01/29/24 11:31	02/04/24 21:09	1
o-Terphenyl	126		70 - 130	01/29/24 11:31	02/04/24 21:09	1

Lab Sample ID: LCS 870-17903/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17969 — **Prep Batch: 17903**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1020	1055		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1010	1107		mg/Kg		110	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: LCSD 870-17903/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17969 — **Prep Batch: 17903**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1020	1121		mg/Kg		110	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1010	1142		mg/Kg		113	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	123		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71661/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			01/26/24 12:43	1

Lab Sample ID: LCS 880-71661/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71691

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	232.6		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-71661/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71691

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	238.5		mg/Kg		95	90 - 110	3	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-38486-8 MS
Matrix: Solid
Analysis Batch: 71691

Client Sample ID: SB-19-S-1'-240122
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	19.7		252	256.4		mg/Kg		94	90 - 110		

Lab Sample ID: 880-38486-8 MSD
Matrix: Solid
Analysis Batch: 71691

Client Sample ID: SB-19-S-1'-240122
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.7		252	256.0		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

GC VOA

Prep Batch: 71863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71863/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-15	SB-21-S-2'-240122	Total/NA	Solid	5030B	
MB 880-71866/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-71866/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-71866/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 72060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-2	SB-16-S-2'-240122	Total/NA	Solid	5030B	
880-38486-4	SB-17-S-2'-240122	Total/NA	Solid	5030B	
880-38486-6	SB-18-S-2'-240122	Total/NA	Solid	5030B	
880-38486-9	SB-19-S-2'-240122	Total/NA	Solid	5030B	
880-38486-12	SB-20-S-2'-240122	Total/NA	Solid	5030B	
MB 880-72060/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-72060/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-72060/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-38486-2 MS	SB-16-S-2'-240122	Total/NA	Solid	5030B	
880-38486-2 MSD	SB-16-S-2'-240122	Total/NA	Solid	5030B	

Analysis Batch: 72197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-2	SB-16-S-2'-240122	Total/NA	Solid	8021B	72060
880-38486-4	SB-17-S-2'-240122	Total/NA	Solid	8021B	72060
880-38486-6	SB-18-S-2'-240122	Total/NA	Solid	8021B	72060
880-38486-9	SB-19-S-2'-240122	Total/NA	Solid	8021B	72060
880-38486-12	SB-20-S-2'-240122	Total/NA	Solid	8021B	72060
MB 880-72060/5-A	Method Blank	Total/NA	Solid	8021B	72060
LCS 880-72060/1-A	Lab Control Sample	Total/NA	Solid	8021B	72060
LCSD 880-72060/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72060
880-38486-2 MS	SB-16-S-2'-240122	Total/NA	Solid	8021B	72060
880-38486-2 MSD	SB-16-S-2'-240122	Total/NA	Solid	8021B	72060

Analysis Batch: 72288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-15	SB-21-S-2'-240122	Total/NA	Solid	8021B	71866
MB 880-71863/5-A	Method Blank	Total/NA	Solid	8021B	71863
MB 880-71866/5-A	Method Blank	Total/NA	Solid	8021B	71866
LCS 880-71866/1-A	Lab Control Sample	Total/NA	Solid	8021B	71866
LCSD 880-71866/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71866

Analysis Batch: 72410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-2	SB-16-S-2'-240122	Total/NA	Solid	Total BTEX	
880-38486-4	SB-17-S-2'-240122	Total/NA	Solid	Total BTEX	
880-38486-6	SB-18-S-2'-240122	Total/NA	Solid	Total BTEX	
880-38486-9	SB-19-S-2'-240122	Total/NA	Solid	Total BTEX	
880-38486-12	SB-20-S-2'-240122	Total/NA	Solid	Total BTEX	
880-38486-15	SB-21-S-2'-240122	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

GC Semi VOA

Prep Batch: 17903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-2	SB-16-S-2'-240122	Total/NA	Solid	8015NM Prep	
880-38486-4	SB-17-S-2'-240122	Total/NA	Solid	8015NM Prep	
880-38486-6	SB-18-S-2'-240122	Total/NA	Solid	8015NM Prep	
880-38486-9	SB-19-S-2'-240122	Total/NA	Solid	8015NM Prep	
880-38486-12	SB-20-S-2'-240122	Total/NA	Solid	8015NM Prep	
880-38486-15	SB-21-S-2'-240122	Total/NA	Solid	8015NM Prep	
MB 870-17903/3-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 870-17903/1-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 870-17903/2-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-2	SB-16-S-2'-240122	Total/NA	Solid	8015B NM	17903
880-38486-4	SB-17-S-2'-240122	Total/NA	Solid	8015B NM	17903
880-38486-6	SB-18-S-2'-240122	Total/NA	Solid	8015B NM	17903
880-38486-9	SB-19-S-2'-240122	Total/NA	Solid	8015B NM	17903
880-38486-12	SB-20-S-2'-240122	Total/NA	Solid	8015B NM	17903
880-38486-15	SB-21-S-2'-240122	Total/NA	Solid	8015B NM	17903
MB 870-17903/3-A	Method Blank	Total/NA	Solid	8015B NM	17903
LCS 870-17903/1-A	Lab Control Sample	Total/NA	Solid	8015B NM	17903
LCSD 870-17903/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17903

Analysis Batch: 17978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-2	SB-16-S-2'-240122	Total/NA	Solid	8015 NM	
880-38486-4	SB-17-S-2'-240122	Total/NA	Solid	8015 NM	
880-38486-6	SB-18-S-2'-240122	Total/NA	Solid	8015 NM	
880-38486-9	SB-19-S-2'-240122	Total/NA	Solid	8015 NM	
880-38486-12	SB-20-S-2'-240122	Total/NA	Solid	8015 NM	
880-38486-15	SB-21-S-2'-240122	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-1	SB-16-S-1'-240122	Soluble	Solid	DI Leach	
880-38486-2	SB-16-S-2'-240122	Soluble	Solid	DI Leach	
880-38486-3	SB-17-S-1'-240122	Soluble	Solid	DI Leach	
880-38486-4	SB-17-S-2'-240122	Soluble	Solid	DI Leach	
880-38486-5	SB-18-S-1'-240122	Soluble	Solid	DI Leach	
880-38486-6	SB-18-S-2'-240122	Soluble	Solid	DI Leach	
880-38486-7	SB-18-S-4'-240122	Soluble	Solid	DI Leach	
880-38486-8	SB-19-S-1'-240122	Soluble	Solid	DI Leach	
880-38486-9	SB-19-S-2'-240122	Soluble	Solid	DI Leach	
880-38486-10	SB-19-S-3'-240122	Soluble	Solid	DI Leach	
880-38486-11	SB-20-S-1'-240122	Soluble	Solid	DI Leach	
880-38486-12	SB-20-S-2'-240122	Soluble	Solid	DI Leach	
880-38486-13	SB-20-S-4'-240122	Soluble	Solid	DI Leach	
880-38486-14	SB-21-S-1'-240122	Soluble	Solid	DI Leach	
880-38486-15	SB-21-S-2'-240122	Soluble	Solid	DI Leach	
880-38486-16	SB-21-S-4'-240122	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

HPLC/IC (Continued)

Leach Batch: 71661 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71661/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71661/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71661/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38486-8 MS	SB-19-S-1'-240122	Soluble	Solid	DI Leach	
880-38486-8 MSD	SB-19-S-1'-240122	Soluble	Solid	DI Leach	

Analysis Batch: 71691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38486-1	SB-16-S-1'-240122	Soluble	Solid	300.0	71661
880-38486-2	SB-16-S-2'-240122	Soluble	Solid	300.0	71661
880-38486-3	SB-17-S-1'-240122	Soluble	Solid	300.0	71661
880-38486-4	SB-17-S-2'-240122	Soluble	Solid	300.0	71661
880-38486-5	SB-18-S-1'-240122	Soluble	Solid	300.0	71661
880-38486-6	SB-18-S-2'-240122	Soluble	Solid	300.0	71661
880-38486-7	SB-18-S-4'-240122	Soluble	Solid	300.0	71661
880-38486-8	SB-19-S-1'-240122	Soluble	Solid	300.0	71661
880-38486-9	SB-19-S-2'-240122	Soluble	Solid	300.0	71661
880-38486-10	SB-19-S-3'-240122	Soluble	Solid	300.0	71661
880-38486-11	SB-20-S-1'-240122	Soluble	Solid	300.0	71661
880-38486-12	SB-20-S-2'-240122	Soluble	Solid	300.0	71661
880-38486-13	SB-20-S-4'-240122	Soluble	Solid	300.0	71661
880-38486-14	SB-21-S-1'-240122	Soluble	Solid	300.0	71661
880-38486-15	SB-21-S-2'-240122	Soluble	Solid	300.0	71661
880-38486-16	SB-21-S-4'-240122	Soluble	Solid	300.0	71661
MB 880-71661/1-A	Method Blank	Soluble	Solid	300.0	71661
LCS 880-71661/2-A	Lab Control Sample	Soluble	Solid	300.0	71661
LCSD 880-71661/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71661
880-38486-8 MS	SB-19-S-1'-240122	Soluble	Solid	300.0	71661
880-38486-8 MSD	SB-19-S-1'-240122	Soluble	Solid	300.0	71661

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-16-S-1'-240122

Lab Sample ID: 880-38486-1
Matrix: Solid
Date Collected: 01/22/24 08:30
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 16:34	CH	EET MID

Client Sample ID: SB-16-S-2'-240122

Lab Sample ID: 880-38486-2
Matrix: Solid
Date Collected: 01/22/24 08:40
Date Received: 01/25/24 14:56

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	72060	01/31/24 14:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72197	02/02/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72410	02/02/24 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			17978	02/05/24 03:21	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17903	01/29/24 11:31	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 03:21	WP	EET DAL
Soluble	Leach	DI Leach			5.04 g	50 mL	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 13:41	CH	EET MID

Client Sample ID: SB-17-S-1'-240122

Lab Sample ID: 880-38486-3
Matrix: Solid
Date Collected: 01/22/24 09:00
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 14:02	CH	EET MID

Client Sample ID: SB-17-S-2'-240122

Lab Sample ID: 880-38486-4
Matrix: Solid
Date Collected: 01/22/24 09:10
Date Received: 01/25/24 14:56

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	72060	01/31/24 14:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72197	02/02/24 22:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72410	02/02/24 22:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			17978	02/05/24 03:42	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	17903	01/29/24 11:31	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 03:42	WP	EET DAL
Soluble	Leach	DI Leach			5.05 g	50 mL	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 14:09	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-18-S-1'-240122 — Lab Sample ID: 880-38486-5

Date Collected: 01/22/24 09:40 — **Matrix: Solid**
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 14:16	CH	EET MID

Client Sample ID: SB-18-S-2'-240122 — Lab Sample ID: 880-38486-6

Date Collected: 01/22/24 09:50 — **Matrix: Solid**
Date Received: 01/25/24 14:56

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	72060	01/31/24 14:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72197	02/02/24 22:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72410	02/02/24 22:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			17978	02/05/24 04:02	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	17903	01/29/24 11:31	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 04:02	WP	EET DAL
Soluble	Leach	DI Leach			5.00 g	50 mL	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 14:22	CH	EET MID

Client Sample ID: SB-18-S-4'-240122 — Lab Sample ID: 880-38486-7

Date Collected: 01/22/24 10:00 — **Matrix: Solid**
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		5			71691	01/26/24 14:29	CH	EET MID

Client Sample ID: SB-19-S-1'-240122 — Lab Sample ID: 880-38486-8

Date Collected: 01/22/24 10:30 — **Matrix: Solid**
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 14:37	CH	EET MID

Client Sample ID: SB-19-S-2'-240122 — Lab Sample ID: 880-38486-9

Date Collected: 01/22/24 10:40 — **Matrix: Solid**
Date Received: 01/25/24 14:56

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	72060	01/31/24 14:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72197	02/02/24 22:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72410	02/02/24 22:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			17978	02/05/24 04:23	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	17903	01/29/24 11:31	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 04:23	WP	EET DAL

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-19-S-2'-240122
Lab Sample ID: 880-38486-9
Date Collected: 01/22/24 10:40
Matrix: Solid
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 15:00	CH	EET MID

Client Sample ID: SB-19-S-3'-240122
Lab Sample ID: 880-38486-10
Date Collected: 01/22/24 10:50
Matrix: Solid
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 15:08	CH	EET MID

Client Sample ID: SB-20-S-1'-240122
Lab Sample ID: 880-38486-11
Date Collected: 01/22/24 11:10
Matrix: Solid
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		1			71691	01/26/24 15:31	CH	EET MID

Client Sample ID: SB-20-S-2'-240122
Lab Sample ID: 880-38486-12
Date Collected: 01/22/24 11:20
Matrix: Solid
Date Received: 01/25/24 14:56

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	72060	01/31/24 14:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72197	02/03/24 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72410	02/03/24 01:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			17978	02/05/24 04:44	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	17903	01/29/24 11:31	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 04:44	WP	EET DAL
Soluble	Leach	DI Leach			5.03 g	50 mL	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		5			71691	01/26/24 15:39	CH	EET MID

Client Sample ID: SB-20-S-4'-240122
Lab Sample ID: 880-38486-13
Date Collected: 01/22/24 11:30
Matrix: Solid
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		10			71691	01/26/24 15:47	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Client Sample ID: SB-21-S-1'-240122

Lab Sample ID: 880-38486-14
Matrix: Solid
Date Collected: 01/22/24 11:50
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		5			71691	01/26/24 15:55	CH	EET MID

Client Sample ID: SB-21-S-2'-240122

Lab Sample ID: 880-38486-15
Matrix: Solid
Date Collected: 01/22/24 12:00
Date Received: 01/25/24 14:56

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	71866	02/02/24 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72288	02/04/24 13:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72410	02/04/24 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			17978	02/05/24 05:04	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17903	01/29/24 11:31	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 05:04	WP	EET DAL
Soluble	Leach	DI Leach			4.96 g	50 mL	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		5			71691	01/26/24 16:03	CH	EET MID

Client Sample ID: SB-21-S-4'-240122

Lab Sample ID: 880-38486-16
Matrix: Solid
Date Collected: 01/22/24 12:10
Date Received: 01/25/24 14:56

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	71661	01/26/24 08:13	SA	EET MID
Soluble	Analysis	300.0		5			71691	01/26/24 16:10	CH	EET MID

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, 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
Total BTEX		Solid	Total BTEX

Laboratory: Eurofins Dallas

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	T104704295-23-34	06-30-24

Method Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET DAL
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET DAL
300.0	Anions, Ion Chromatography	EPA	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET DAL
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38486-1
SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38486-1	SB-16-S-1'-240122	Solid	01/22/24 08:30	01/25/24 14:56
880-38486-2	SB-16-S-2'-240122	Solid	01/22/24 08:40	01/25/24 14:56
880-38486-3	SB-17-S-1'-240122	Solid	01/22/24 09:00	01/25/24 14:56
880-38486-4	SB-17-S-2'-240122	Solid	01/22/24 09:10	01/25/24 14:56
880-38486-5	SB-18-S-1'-240122	Solid	01/22/24 09:40	01/25/24 14:56
880-38486-6	SB-18-S-2'-240122	Solid	01/22/24 09:50	01/25/24 14:56
880-38486-7	SB-18-S-4'-240122	Solid	01/22/24 10:00	01/25/24 14:56
880-38486-8	SB-19-S-1'-240122	Solid	01/22/24 10:30	01/25/24 14:56
880-38486-9	SB-19-S-2'-240122	Solid	01/22/24 10:40	01/25/24 14:56
880-38486-10	SB-19-S-3'-240122	Solid	01/22/24 10:50	01/25/24 14:56
880-38486-11	SB-20-S-1'-240122	Solid	01/22/24 11:10	01/25/24 14:56
880-38486-12	SB-20-S-2'-240122	Solid	01/22/24 11:20	01/25/24 14:56
880-38486-13	SB-20-S-4'-240122	Solid	01/22/24 11:30	01/25/24 14:56
880-38486-14	SB-21-S-1'-240122	Solid	01/22/24 11:50	01/25/24 14:56
880-38486-15	SB-21-S-2'-240122	Solid	01/22/24 12:00	01/25/24 14:56
880-38486-16	SB-21-S-4'-240122	Solid	01/22/24 12:10	01/25/24 14:56

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing

486

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-8032-1136 4
Client Contact: Mr Morgan Jordan	Phone: 575-390-4618	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: ~~Page 4 of 14~~ 1 of 2
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: WLN 41	Project #: ~~88002020~~ 30209657			
Site: Lovington, NM	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J - DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~300_ORGFM_28B~~; 8015MOD_NM, 8021B (GRO)	300_ORGFM_28D	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N			
SB-16-S-1'-240122	1/22/24	830	G	Solid				X		
SB-16-S-2'-240122		840		Solid			X	X		
SB-17-S-1'-240122		900		Solid				X		
SB-17-S-2'-240122		910		Solid			X	X		
SB-18-S-1'-240122		940		Solid				X		
SB-18-S-2'-240122		950		Solid			X	X		
SB-18-S-4'-240122		1000		Solid				X		
SB-19-S-1'-240122		1030		Solid				X		
SB-19-S-2'-240122		1040		Solid			X	X		
SB-19-S-3'-240122		1050		Solid				X		
SB-20-S-1'-240122	X	1110	X	Solid				X		

880-38486 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		1/23/24 1600	Arcadis	Daphne Gonzales		
	Relinquished by	Date/Time	Company	Received by	Date/Time 1/25/24	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time 1456	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.0/3.2

Ver 01/16/2019

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Received by OCD: 10/23/2024 1:19:31 PM
2/12/2024
Page 30 of 34
Released to Imaging: 10/30/2024 9:04:02 AM

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing

4986

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(s):	COC No.: 880-8032-1136 4
Client Contact: Mr Morgan Jordan	Phone: 575-390-4618	E-Mail: John Builes@et.eurofinsus com	State of Origin: NM	Page: Page ~~4 of 14~~ 2 of 2
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas jordan@arcadis com	WO #:			
Project Name: WLU 41	Project #: ~~88002620~~ 30209657			
Site: Lovington, NM	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, ~~300_ORGFM_28D~~, 8015MOD_NM, 8021B	300-ORGFM_28D	Total Number of containers	Special Instructions/Note.
			Preservation Code:				N			
SB-20-S-2'-240122	1/22/24	1120	G	Solid			X	X		
SB-20-S-4'-240122	"	1130	"	Solid				X		
SB-21-S-1'-240122	"	1150	"	Solid				X		
SB-21-S-2'-240122	"	1200	"	Solid			X	X		
SB-21-S-4'-240122	X	1210	X	Solid				X		
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

Loc: 880
38486

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		1/25/24 1600	Arcadis	Daphne Gonzales		
	Relinquished by	Date/Time	Company	Received by	Date/Time 1/25/24	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time 1456	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

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Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-9087.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 880-38486-1
Address: 9701 Harry Hines Blvd, ,	Due Date Requested: 1/31/2024			
City: Dallas	TAT Requested (days):			
State, Zip: TX, 75220				
Phone: 214-902-0300(Tel)	PO #:			
Email:	WO #:			
Project Name: WLU 41	Project #: 88002020			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SB-16-S-2'-240122 (880-38486-2)	1/22/24	08:40 Central		Solid			X	X	1	
SB-17-S-2'-240122 (880-38486-4)	1/22/24	09:10 Central		Solid			X	X	1	
SB-18-S-2'-240122 (880-38486-6)	1/22/24	09:50 Central		Solid			X	X	1	
SB-19-S-2'-240122 (880-38486-9)	1/22/24	10:40 Central		Solid			X	X	1	
SB-20-S-2'-240122 (880-38486-12)	1/22/24	11:20 Central		Solid			X	X	1	
SB-21-S-2'-240122 (880-38486-15)	1/22/24	12:00 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time:	Company	Received by: FedEx	Date/Time: Company
Relinquished by: FedEx	Date/Time: 2/2/24 932	Company	Received by:	Date/Time: 2/2/24 932 Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Received by OCD: 10/23/2024 1:19:31 PM
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Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-38486-1
SDG Number: Lovington, NM

Login Number: 38486
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	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-38486-1
SDG Number: Lovington, NM

Login Number: 38486
List Number: 2
Creator: Dabinett, Ian

List Source: Eurofins Dallas
List Creation: 02/02/24 12:43 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?	N/A	
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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 2/12/2024 10:49:27 AM

JOB DESCRIPTION

WLU 41
Lovington, NM

JOB NUMBER

880-38635-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 10/30/2024 9:04:02 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
2/12/2024 10:49:27 AM

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

Client: ARCADIS US Inc
Project/Site: WLU 41

Laboratory Job ID: 880-38635-1
SDG: Lovington, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: ARCADIS US Inc
Project: WLU 41

Job ID: 880-38635-1

Job ID: 880-38635-1 Eurofins Midland

Job Narrative
880-38635-1

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 1/30/2024 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SB-22-S-1'-240124 (880-38635-1), SB-22-S-2'-240124 (880-38635-2), SB-24-S-1'-240124 (880-38635-3) and SB-24-S-2'-240124 (880-38635-4).

GC VOA
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-72315 recovered outside control limits for the following analytes: MTBE.

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 the upper control limit: SB-22-S-2'-240124 (880-38635-2), SB-24-S-2'-240124 (880-38635-4) and (890-6040-A-1-J). This sample did not contain any target analytes; 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.

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

Client Sample ID: SB-22-S-1'-240124

Lab Sample ID: 880-38635-1
Matrix: Solid
Date Collected: 01/24/24 10:50
Date Received: 01/30/24 08:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.13		4.99	0.394	mg/Kg			01/31/24 03:11	1

Client Sample ID: SB-22-S-2'-240124

Lab Sample ID: 880-38635-2
Matrix: Solid
Date Collected: 01/24/24 11:00
Date Received: 01/30/24 08:35

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		02/05/24 11:33	02/05/24 22:58	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		02/05/24 11:33	02/05/24 22:58	1
Ethylbenzene	<0.000566	U *+	0.00200	0.000566	mg/Kg		02/05/24 11:33	02/05/24 22:58	1
m-Xylene & p-Xylene	<0.00101	U *+	0.00401	0.00101	mg/Kg		02/05/24 11:33	02/05/24 22:58	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		02/05/24 11:33	02/05/24 22:58	1
Xylenes, Total	<0.00101	U *+	0.00401	0.00101	mg/Kg		02/05/24 11:33	02/05/24 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*02/05/24 11:33*	*02/05/24 22:58*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/05/24 11:33*	*02/05/24 22:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			02/05/24 22:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<24.9	U	49.8	24.9	mg/Kg			02/05/24 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<24.9	U	49.8	24.9	mg/Kg		01/30/24 11:05	02/05/24 14:00	1
Diesel Range Organics (Over C10-C28)	<24.9	U	49.8	24.9	mg/Kg		01/30/24 11:05	02/05/24 14:00	1
OII Range Organics (Over C28-C36)	<24.9	U	49.8	24.9	mg/Kg		01/30/24 11:05	02/05/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*01/30/24 11:05*	*02/05/24 14:00*	*1*
o-Terphenyl	*149*	*S1+*	*70 - 130*	*01/30/24 11:05*	*02/05/24 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.1		5.04	0.398	mg/Kg			01/31/24 08:32	1

Client Sample ID: SB-24-S-1'-240124

Lab Sample ID: 880-38635-3
Matrix: Solid
Date Collected: 01/24/24 11:20
Date Received: 01/30/24 08:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		5.02	0.397	mg/Kg			01/31/24 03:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

Client Sample ID: SB-24-S-2'-240124

Date Collected: 01/24/24 11:30
Date Received: 01/30/24 08:35

Lab Sample ID: 880-38635-4

Matrix: Solid

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		02/05/24 11:33	02/05/24 23:19	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		02/05/24 11:33	02/05/24 23:19	1
Ethylbenzene	<0.000562	U *+	0.00199	0.000562	mg/Kg		02/05/24 11:33	02/05/24 23:19	1
m-Xylene & p-Xylene	<0.00100	U *+	0.00398	0.00100	mg/Kg		02/05/24 11:33	02/05/24 23:19	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		02/05/24 11:33	02/05/24 23:19	1
Xylenes, Total	<0.00100	U *+	0.00398	0.00100	mg/Kg		02/05/24 11:33	02/05/24 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*02/05/24 11:33*	*02/05/24 23:19*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*02/05/24 11:33*	*02/05/24 23:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			02/05/24 23:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<24.9	U	49.7	24.9	mg/Kg			02/05/24 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<24.9	U	49.7	24.9	mg/Kg		01/30/24 11:05	02/05/24 14:21	1
Diesel Range Organics (Over C10-C28)	<24.9	U	49.7	24.9	mg/Kg		01/30/24 11:05	02/05/24 14:21	1
OII Range Organics (Over C28-C36)	<24.9	U	49.7	24.9	mg/Kg		01/30/24 11:05	02/05/24 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*01/30/24 11:05*	*02/05/24 14:21*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*01/30/24 11:05*	*02/05/24 14:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.5**		4.96	0.392	mg/Kg			01/31/24 03:45	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-38635-2	SB-22-S-2'-240124	83	84										
880-38635-2 MS	SB-22-S-2'-240124	121	98										
880-38635-2 MSD	SB-22-S-2'-240124	122	96										
880-38635-4	SB-24-S-2'-240124	86	77										
LCS 880-72362/1-A	Lab Control Sample	110	92										
LCSD 880-72362/2-A	Lab Control Sample Dup	129	97										
MB 880-72103/5-A	Method Blank	76	77										
MB 880-72362/5-A	Method Blank	73	80										

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-38635-2	SB-22-S-2'-240124	131 S1+	149 S1+										
880-38635-4	SB-24-S-2'-240124	122	139 S1+										
LCS 870-17904/1-A	Lab Control Sample	110	119										
LCSD 870-17904/2-A	Lab Control Sample Dup	113	120										
MB 870-17904/3-A	Method Blank	130	122										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72103/5-A
Matrix: Solid
Analysis Batch: 72315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/01/24 10:19	02/05/24 11:23	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/01/24 10:19	02/05/24 11:23	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/01/24 10:19	02/05/24 11:23	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/01/24 10:19	02/05/24 11:23	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/01/24 10:19	02/05/24 11:23	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/01/24 10:19	02/05/24 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*02/01/24 10:19*	*02/05/24 11:23*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*02/01/24 10:19*	*02/05/24 11:23*	*1*

Lab Sample ID: MB 880-72362/5-A
Matrix: Solid
Analysis Batch: 72315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/05/24 11:33	02/05/24 22:36	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/05/24 11:33	02/05/24 22:36	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/05/24 11:33	02/05/24 22:36	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/05/24 11:33	02/05/24 22:36	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/05/24 11:33	02/05/24 22:36	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/05/24 11:33	02/05/24 22:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*02/05/24 11:33*	*02/05/24 22:36*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*02/05/24 11:33*	*02/05/24 22:36*	*1*

Lab Sample ID: LCS 880-72362/1-A
Matrix: Solid
Analysis Batch: 72315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08244		mg/Kg		82	70 - 130
Toluene	0.100	0.09597		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1204		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2275		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-72362/2-A
Matrix: Solid
Analysis Batch: 72315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72362

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09873		mg/Kg		99	70 - 130	18	35

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

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

Lab Sample ID: LCSD 880-72362/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72315 — **Prep Batch: 72362**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	11	35
Ethylbenzene			0.100	0.1382	*+	mg/Kg		138	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.2649	*+	mg/Kg		132	70 - 130	15	35
o-Xylene			0.100	0.1288		mg/Kg		129	70 - 130	15	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-38635-2 MS — **Client Sample ID: SB-22-S-2'-240124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72315 — **Prep Batch: 72362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000386	U	0.0996	0.09172		mg/Kg		92	70 - 130
Toluene	<0.000457	U	0.0996	0.09725		mg/Kg		98	70 - 130
Ethylbenzene	<0.000566	U *+	0.0996	0.1164		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	<0.00101	U *+	0.199	0.2228		mg/Kg		112	70 - 130
o-Xylene	<0.000345	U	0.0996	0.1067		mg/Kg		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-38635-2 MSD — **Client Sample ID: SB-22-S-2'-240124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72315 — **Prep Batch: 72362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000386	U	0.0994	0.09992		mg/Kg		101	70 - 130	9	35
Toluene	<0.000457	U	0.0994	0.1044		mg/Kg		105	70 - 130	7	35
Ethylbenzene	<0.000566	U *+	0.0994	0.1253		mg/Kg		126	70 - 130	7	35
m-Xylene & p-Xylene	<0.00101	U *+	0.199	0.2399		mg/Kg		121	70 - 130	7	35
o-Xylene	<0.000345	U	0.0994	0.1152		mg/Kg		116	70 - 130	8	35

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

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

Lab Sample ID: MB 870-17904/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17969 — **Prep Batch: 17904**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<25.0	U	50.0	25.0	mg/Kg		01/30/24 11:05	02/05/24 06:27	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

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

Lab Sample ID: MB 870-17904/3-A
Matrix: Solid
Analysis Batch: 17969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<25.0	U	50.0	25.0	mg/Kg		01/30/24 11:05	02/05/24 06:27	1
OII Range Organics (Over C28-C36)	<25.0	U	50.0	25.0	mg/Kg		01/30/24 11:05	02/05/24 06:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*01/30/24 11:05*	*02/05/24 06:27*	*1*
o-Terphenyl	*122*		*70 - 130*	*01/30/24 11:05*	*02/05/24 06:27*	*1*

Lab Sample ID: LCS 870-17904/1-A
Matrix: Solid
Analysis Batch: 17969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17904

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1020	1122		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)			1010	1194		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: LCSD 870-17904/2-A
Matrix: Solid
Analysis Batch: 17969

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17904

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1020	1176		mg/Kg		115	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1010	1206		mg/Kg		119	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*113*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71925/1-A
Matrix: Solid
Analysis Batch: 71958

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			01/31/24 02:50	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-71925/2-A
Matrix: Solid
Analysis Batch: 71958

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.5		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-71925/3-A
Matrix: Solid
Analysis Batch: 71958

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	261.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-38635-1 MS
Matrix: Solid
Analysis Batch: 71958

Client Sample ID: SB-22-S-1'-240124
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5.13		250	257.4		mg/Kg		101	90 - 110		

Lab Sample ID: 880-38635-1 MSD
Matrix: Solid
Analysis Batch: 71958

Client Sample ID: SB-22-S-1'-240124
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.13		250	256.5		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

GC VOA

Prep Batch: 72103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-72103/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 72315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38635-2	SB-22-S-2'-240124	Total/NA	Solid	8021B	72362
880-38635-4	SB-24-S-2'-240124	Total/NA	Solid	8021B	72362
MB 880-72103/5-A	Method Blank	Total/NA	Solid	8021B	72103
MB 880-72362/5-A	Method Blank	Total/NA	Solid	8021B	72362
LCS 880-72362/1-A	Lab Control Sample	Total/NA	Solid	8021B	72362
LCSD 880-72362/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72362
880-38635-2 MS	SB-22-S-2'-240124	Total/NA	Solid	8021B	72362
880-38635-2 MSD	SB-22-S-2'-240124	Total/NA	Solid	8021B	72362

Prep Batch: 72362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38635-2	SB-22-S-2'-240124	Total/NA	Solid	5030B	
880-38635-4	SB-24-S-2'-240124	Total/NA	Solid	5030B	
MB 880-72362/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-72362/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-72362/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-38635-2 MS	SB-22-S-2'-240124	Total/NA	Solid	5030B	
880-38635-2 MSD	SB-22-S-2'-240124	Total/NA	Solid	5030B	

Analysis Batch: 72510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38635-2	SB-22-S-2'-240124	Total/NA	Solid	Total BTEX	
880-38635-4	SB-24-S-2'-240124	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 17904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38635-2	SB-22-S-2'-240124	Total/NA	Solid	8015NM Prep	
880-38635-4	SB-24-S-2'-240124	Total/NA	Solid	8015NM Prep	
MB 870-17904/3-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 870-17904/1-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 870-17904/2-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38635-2	SB-22-S-2'-240124	Total/NA	Solid	8015B NM	17904
880-38635-4	SB-24-S-2'-240124	Total/NA	Solid	8015B NM	17904
MB 870-17904/3-A	Method Blank	Total/NA	Solid	8015B NM	17904
LCS 870-17904/1-A	Lab Control Sample	Total/NA	Solid	8015B NM	17904
LCSD 870-17904/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17904

Analysis Batch: 17980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38635-2	SB-22-S-2'-240124	Total/NA	Solid	8015 NM	
880-38635-4	SB-24-S-2'-240124	Total/NA	Solid	8015 NM	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

HPLC/IC

Leach Batch: 71925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38635-1	SB-22-S-1'-240124	Soluble	Solid	DI Leach	
880-38635-2	SB-22-S-2'-240124	Soluble	Solid	DI Leach	
880-38635-3	SB-24-S-1'-240124	Soluble	Solid	DI Leach	
880-38635-4	SB-24-S-2'-240124	Soluble	Solid	DI Leach	
MB 880-71925/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71925/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71925/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38635-1 MS	SB-22-S-1'-240124	Soluble	Solid	DI Leach	
880-38635-1 MSD	SB-22-S-1'-240124	Soluble	Solid	DI Leach	

Analysis Batch: 71958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38635-1	SB-22-S-1'-240124	Soluble	Solid	300.0	71925
880-38635-2	SB-22-S-2'-240124	Soluble	Solid	300.0	71925
880-38635-3	SB-24-S-1'-240124	Soluble	Solid	300.0	71925
880-38635-4	SB-24-S-2'-240124	Soluble	Solid	300.0	71925
MB 880-71925/1-A	Method Blank	Soluble	Solid	300.0	71925
LCS 880-71925/2-A	Lab Control Sample	Soluble	Solid	300.0	71925
LCSD 880-71925/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71925
880-38635-1 MS	SB-22-S-1'-240124	Soluble	Solid	300.0	71925
880-38635-1 MSD	SB-22-S-1'-240124	Soluble	Solid	300.0	71925

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

Client Sample ID: SB-22-S-1'-240124

Lab Sample ID: 880-38635-1
Matrix: Solid
Date Collected: 01/24/24 10:50
Date Received: 01/30/24 08:35

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	71925	01/30/24 10:30	SMC	EET MID
Soluble	Analysis	300.0		1			71958	01/31/24 03:11	CH	EET MID

Client Sample ID: SB-22-S-2'-240124

Lab Sample ID: 880-38635-2
Matrix: Solid
Date Collected: 01/24/24 11:00
Date Received: 01/30/24 08:35

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	72362	02/05/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72315	02/05/24 22:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72510	02/05/24 22:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			17980	02/05/24 14:00	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	17904	01/30/24 11:05	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 14:00	WP	EET DAL
Soluble	Leach	DI Leach			4.96 g	50 mL	71925	01/30/24 10:30	SMC	EET MID
Soluble	Analysis	300.0		1			71958	01/31/24 08:32	CH	EET MID

Client Sample ID: SB-24-S-1'-240124

Lab Sample ID: 880-38635-3
Matrix: Solid
Date Collected: 01/24/24 11:20
Date Received: 01/30/24 08:35

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	71925	01/30/24 10:30	SMC	EET MID
Soluble	Analysis	300.0		1			71958	01/31/24 03:38	CH	EET MID

Client Sample ID: SB-24-S-2'-240124

Lab Sample ID: 880-38635-4
Matrix: Solid
Date Collected: 01/24/24 11:30
Date Received: 01/30/24 08:35

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	72362	02/05/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72315	02/05/24 23:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72510	02/05/24 23:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			17980	02/05/24 14:21	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	17904	01/30/24 11:05	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17969	02/05/24 14:21	WP	EET DAL
Soluble	Leach	DI Leach			5.04 g	50 mL	71925	01/30/24 10:30	SMC	EET MID
Soluble	Analysis	300.0		1			71958	01/31/24 03:45	CH	EET MID

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, 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
Total BTEX		Solid	Total BTEX

Laboratory: Eurofins Dallas

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	T104704295-23-34	06-30-24

Method Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET DAL
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET DAL
300.0	Anions, Ion Chromatography	EPA	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET DAL
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38635-1
SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38635-1	SB-22-S-1'-240124	Solid	01/24/24 10:50	01/30/24 08:35
880-38635-2	SB-22-S-2'-240124	Solid	01/24/24 11:00	01/30/24 08:35
880-38635-3	SB-24-S-1'-240124	Solid	01/24/24 11:20	01/30/24 08:35
880-38635-4	SB-24-S-2'-240124	Solid	01/24/24 11:30	01/30/24 08:35

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Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

880-38635 Chain of Custody

ient Testing

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Ca	
Client Contact: Mr Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 5 of 14
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: WLN 41	Project #: ~~88002020~~ 30209657			
Site: Lovington, NM	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~300_ORGFM_28D~~, 8015MOD_NM, 8021B	300_ORGFM_28D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
SB-22-S-1'-240124	1/24/24	1050	G	Solid				X		
SB-22-S-2'-240124	"	1100	"	Solid			X	X		
SB-24-S-1'-240124	"	1120	"	Solid				X		
SB-24-S-2'-240124	X	1130	X	Solid			X	X		
	X	~~1140~~	X	Solid				X		
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:			
Relinquished by:	Date/Time: 1/25/24 1500	Company: Arcadis	Received by: Dathne Gonzales	Date/Time: 1/25/24	Company	
Relinquished by	Date/Time	Company	Received by	Date/Time: 1/30/24	Company	
Relinquished by	Date/Time	Company	Received by	Date/Time: 0828	Company	
Custody Seals Intact. Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks.	3.5 | 3.7		

Ver: 01/16/2019

Received by OCD: 10/23/2024 1:19:31 PM

Released to Imaging: 10/30/2024 9:04:02 AM

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-9074.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 880-38635-1
Address: 9701 Harry Hines Blvd, ,	Due Date Requested: 2/5/2024			
City: Dallas	TAT Requested (days):			
State, Zip: TX, 75220				
Phone: 214-902-0300(Tel)	PO #:			
Email:	WO #:			
Project Name: WLU 41	Project #: 88002020			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Y - Trizma
	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SB-22-S-2'-240124 (880-38635-2)	1/24/24	11:00 Central		Solid			X	X	1	
SB-24-S-2'-240124 (880-38635-4)	1/24/24	11:30 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by: FedEx	Date/Time: 2/1/24 1025	Company	Received by:	Date/Time: 2/1/24 1025	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

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Received by OCD: 10/23/2024 1:19:31 PM
2/12/2024
Page 20 of 22
Released to Imaging: 10/30/2024 9:04:02 AM

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-38635-1
SDG Number: Lovington, NM

Login Number: 38635
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	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-38635-1
SDG Number: Lovington, NM

Login Number: 38635
List Number: 2
Creator: Dabinett, Ian

List Source: Eurofins Dallas
List Creation: 02/01/24 12:45 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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?	N/A	
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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 2/15/2024 7:48:24 PM

JOB DESCRIPTION

WLU 41
Lovington, NM

JOB NUMBER

880-38872-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 10/30/2024 9:04:02 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
2/15/2024 7:48:24 PM

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

Client: ARCADIS US Inc
Project/Site: WLU 41

Laboratory Job ID: 880-38872-1
SDG: Lovington, NM

Table of Contents

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: ARCADIS US Inc
Project: WLU 41

Job ID: 880-38872-1

Job ID: 880-38872-1 Eurofins Midland

Job Narrative
880-38872-1

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 2/5/2024 8:42 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: SB-23-S-1'-240202 (880-38872-1) and SB-23-S-2'-240202 (880-38872-2).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-72779 and analytical batch 880-72796 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-72779 and analytical batch 880-72796 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

Client Sample ID: SB-23-S-1'-240202

Lab Sample ID: 880-38872-1
Matrix: Solid
Date Collected: 02/02/24 09:20
Date Received: 02/05/24 08:42

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		5.03	0.397	mg/Kg			02/05/24 19:43	1

Client Sample ID: SB-23-S-2'-240202

Lab Sample ID: 880-38872-2
Matrix: Solid
Date Collected: 02/02/24 09:30
Date Received: 02/05/24 08:42

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		02/15/24 08:59	02/15/24 13:42	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		02/15/24 08:59	02/15/24 13:42	1
Ethylbenzene	0.00360		0.00199	0.000562	mg/Kg		02/15/24 08:59	02/15/24 13:42	1
m-Xylene & p-Xylene	0.0121		0.00398	0.00100	mg/Kg		02/15/24 08:59	02/15/24 13:42	1
o-Xylene	0.00955		0.00199	0.000342	mg/Kg		02/15/24 08:59	02/15/24 13:42	1
Xylenes, Total	0.0217		0.00398	0.00100	mg/Kg		02/15/24 08:59	02/15/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*02/15/24 08:59*	*02/15/24 13:42*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/15/24 08:59*	*02/15/24 13:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0253		0.00398	0.00100	mg/Kg			02/15/24 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.6		50.2	15.0	mg/Kg			02/10/24 17:41	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	41.7	J B	50.2	15.0	mg/Kg		02/09/24 15:00	02/10/24 17:41	1
Diesel Range Organics (Over C10-C28)	28.9	J	50.2	15.0	mg/Kg		02/09/24 15:00	02/10/24 17:41	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg		02/09/24 15:00	02/10/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*02/09/24 15:00*	*02/10/24 17:41*	*1*
o-Terphenyl	*129*		*70 - 130*	*02/09/24 15:00*	*02/10/24 17:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		5.05	0.399	mg/Kg			02/05/24 19:58	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-38872-2	SB-23-S-2'-240202	126	100										
LCS 880-73222/1-A	Lab Control Sample	120	84										
LCSD 880-73222/2-A	Lab Control Sample Dup	114	94										
MB 880-73222/5-A	Method Blank	82	94										

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-38872-2	SB-23-S-2'-240202	121	129										
LCS 880-72779/2-A	Lab Control Sample	105	103										
LCSD 880-72779/3-A	Lab Control Sample Dup	102	98										
MB 880-72779/1-A	Method Blank	164 S1+	183 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73222/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73209 — **Prep Batch: 73222**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/15/24 08:59	02/15/24 11:17	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/15/24 08:59	02/15/24 11:17	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/15/24 08:59	02/15/24 11:17	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/15/24 08:59	02/15/24 11:17	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/15/24 08:59	02/15/24 11:17	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/15/24 08:59	02/15/24 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*02/15/24 08:59*	*02/15/24 11:17*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/15/24 08:59*	*02/15/24 11:17*	*1*

Lab Sample ID: LCS 880-73222/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73209 — **Prep Batch: 73222**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09819		mg/Kg		98	70 - 130		
Toluene			0.100	0.1209		mg/Kg		121	70 - 130		
Ethylbenzene			0.100	0.1149		mg/Kg		115	70 - 130		
m-Xylene & p-Xylene			0.200	0.2350		mg/Kg		117	70 - 130		
o-Xylene			0.100	0.1174		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: LCSD 880-73222/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73209 — **Prep Batch: 73222**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1042		mg/Kg		104	70 - 130	6	35
Toluene			0.100	0.1198		mg/Kg		120	70 - 130	1	35
Ethylbenzene			0.100	0.1131		mg/Kg		113	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2284		mg/Kg		114	70 - 130	3	35
o-Xylene			0.100	0.1137		mg/Kg		114	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

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

Lab Sample ID: MB 880-72779/1-A
Matrix: Solid
Analysis Batch: 72796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.87	J	50.0	15.0	mg/Kg		02/09/24 15:00	02/10/24 07:36	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		02/09/24 15:00	02/10/24 07:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/09/24 15:00	02/10/24 07:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*02/09/24 15:00*	*02/10/24 07:36*	*1*
o-Terphenyl	*183*	*S1+*	*70 - 130*	*02/09/24 15:00*	*02/10/24 07:36*	*1*

Lab Sample ID: LCS 880-72779/2-A
Matrix: Solid
Analysis Batch: 72796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72779

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	920.8		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	909.9		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: LCSD 880-72779/3-A
Matrix: Solid
Analysis Batch: 72796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72779

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	914.9		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	900.4		mg/Kg		90	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-72356/1-A
Matrix: Solid
Analysis Batch: 72369

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			02/05/24 19:29	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-72356/2-A
Matrix: Solid
Analysis Batch: 72369

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.5		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-72356/3-A
Matrix: Solid
Analysis Batch: 72369

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	239.6		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-38872-1 MS
Matrix: Solid
Analysis Batch: 72369

Client Sample ID: SB-23-S-1'-240202
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	168		252	409.4		mg/Kg		96	90 - 110		

Lab Sample ID: 880-38872-1 MSD
Matrix: Solid
Analysis Batch: 72369

Client Sample ID: SB-23-S-1'-240202
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	168		252	411.4		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

GC VOA

Analysis Batch: 73209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38872-2	SB-23-S-2'-240202	Total/NA	Solid	8021B	73222
MB 880-73222/5-A	Method Blank	Total/NA	Solid	8021B	73222
LCS 880-73222/1-A	Lab Control Sample	Total/NA	Solid	8021B	73222
LCSD 880-73222/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73222

Prep Batch: 73222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38872-2	SB-23-S-2'-240202	Total/NA	Solid	5030B	
MB 880-73222/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-73222/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-73222/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 73308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38872-2	SB-23-S-2'-240202	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 72779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38872-2	SB-23-S-2'-240202	Total/NA	Solid	8015NM Prep	
MB 880-72779/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72779/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38872-2	SB-23-S-2'-240202	Total/NA	Solid	8015B NM	72779
MB 880-72779/1-A	Method Blank	Total/NA	Solid	8015B NM	72779
LCS 880-72779/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72779
LCSD 880-72779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72779

Analysis Batch: 72969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38872-2	SB-23-S-2'-240202	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 72356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38872-1	SB-23-S-1'-240202	Soluble	Solid	DI Leach	
880-38872-2	SB-23-S-2'-240202	Soluble	Solid	DI Leach	
MB 880-72356/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72356/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72356/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38872-1 MS	SB-23-S-1'-240202	Soluble	Solid	DI Leach	
880-38872-1 MSD	SB-23-S-1'-240202	Soluble	Solid	DI Leach	

Analysis Batch: 72369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38872-1	SB-23-S-1'-240202	Soluble	Solid	300.0	72356
880-38872-2	SB-23-S-2'-240202	Soluble	Solid	300.0	72356

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

HPLC/IC (Continued)

Analysis Batch: 72369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-72356/1-A	Method Blank	Soluble	Solid	300.0	72356
LCS 880-72356/2-A	Lab Control Sample	Soluble	Solid	300.0	72356
LCSD 880-72356/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72356
880-38872-1 MS	SB-23-S-1'-240202	Soluble	Solid	300.0	72356
880-38872-1 MSD	SB-23-S-1'-240202	Soluble	Solid	300.0	72356

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

Client Sample ID: SB-23-S-1'-240202

Lab Sample ID: 880-38872-1
Matrix: Solid
Date Collected: 02/02/24 09:20
Date Received: 02/05/24 08:42

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	72356	02/05/24 10:33	SMC	EET MID
Soluble	Analysis	300.0		1			72369	02/05/24 19:43	CH	EET MID

Client Sample ID: SB-23-S-2'-240202

Lab Sample ID: 880-38872-2
Matrix: Solid
Date Collected: 02/02/24 09:30
Date Received: 02/05/24 08:42

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	73222	02/15/24 08:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73209	02/15/24 13:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73308	02/15/24 13:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			72969	02/10/24 17:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	72779	02/09/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72796	02/10/24 17:41	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	72356	02/05/24 10:33	SMC	EET MID
Soluble	Analysis	300.0		1			72369	02/05/24 19:58	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, 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
Total BTEX		Solid	Total BTEX

Method Summary

Client: ARCADIS US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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.

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 US Inc
Project/Site: WLU 41

Job ID: 880-38872-1
SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38872-1	SB-23-S-1'-240202	Solid	02/02/24 09:20	02/05/24 08:42
880-38872-2	SB-23-S-2'-240202	Solid	02/02/24 09:30	02/05/24 08:42

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins | Environment Testing

38872

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-8032-1136 11
Client Contact: Mr Morgan Jordan	Phone: 575-390-4618	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~11 of 14~~ 13 (1 of 1)
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: WLU 41	Project #: ~~88002020~~ 30209657			
Site: Lovington, NM	SSOW#:			

Analysis Requested

Preservation Codes: A HCL; B NaOH; C Zn Acetate; D Nitric Acid; E NaHSO4; F MeOH; G Amchlor; H Ascorbic Acid; I Ice; J DI Water; K EDTA; L EDA; M Hexane; N None; O AsNaO2; P Na2O4S; Q Na2SO3; R Na2S2O3; S H2SO4; T TSP Dodecahydrate; U Acetone; V MCAA; W pH 4-5; Y Trizma; Z other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D; 8015MOD_NM, 8021B	300_ORGFM_28D	Total Number of containers	Special Instructions/Note
			Preservation Code:				N			
SB-23-S-1'-240202	2/2/24	920	G	Solid				X		
SB-23-S-2'-240202	2/2/24	930	G	Solid			X	X		
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

880-38872 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	2/2/24 1500	Arcadis	[signature]	2-2-24 2:54	
2				[signature]	2/2/24 842	
3					2/5/24	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 1.3 | 1.5

Ver: 01/16/2019

Page 268 of 604
Received by OCD: 10/23/2024 1:19:31 PM
2/15/2024
Page 17 of 18
Released to Imaging: 10/30/2024 9:04:02 AM

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-38872-1
SDG Number: Lovington, NM

Login Number: 38872
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	

Appendix F

NMOCD Correspondence

From: Jordan, Morgan
Sent: Monday, May 6, 2024 10:52 AM
To: Krueger, Lauren
Subject: FW: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

Thank You,

Morgan Jordan | Project Manager | douglas.jordan@arcadis.com
Arcadis | Arcadis U.S., Inc.
98 San Jacinto Blvd, Suite 414 | Austin, TX | 78701 | USA
M. +1 281 644 9437

Connect with us! www.arcadis.com | LinkedIn | Twitter | Facebook

ARCADIS Design & Consultancy for natural and built assets

Be green, leave it on the screen.

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Thursday, May 2, 2024 12:54 PM
To: Foord, Scott <William.Foord@arcadis.com>
Cc: Chrisbrand@chevron.com; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

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Good Afternoon Scott,

The incidents below have been granted a **final** 60 day extension of July 24, 2024. Please submit all reports via the OCD permitting portal by July 24, 2024.

1. Inc. No. nLWJ1016954547 – WLU East Test Sat (State Land) - Additional soil assessment activities completed in February and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
2. Inc. No. nPAC0614230052 & nPAC0718639351 – WLU Water Inj Station (State Land) - Additional soil assessment activities completed in January and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
3. Inc. No. nGRL1006731469 – WLU 41 (Private) - Additional soil assessment activities conducted in January and February 2024. Vertical delineation was not completed, additional assessment will be required and will be conducted within 30 days. A Site Characterization and Remediation Work Plan will be prepared and submitted to NMOCD following completion of assessment activities within the next 30 days.
4. Inc. No. nPAC0708526071 – WLU 47 (Private) - Additional soil assessment activities completed in January and February 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.

5. Inc. No. nPAC0617348887 – WLU 56 (Private) - The latest soil assessment was completed in March 2023 and a Site Characterization and Remediation Work Plan was submitted to NMOCD in December 2023. The 2023 Site Characterization and Remediation Work Plan was rejected and is currently being revised to address NMOCD comments for resubmittal to the Portal.
6. Inc. No. nTO1424533890 – Keel Fed Battery (BLM) - Closure request report was submitted in December of 2023 and denied by NMOCD on December 22, 2023. The Closure Request Report is currently being revised to address NMOCD comments and will be resubmitted to the Portal.
7. Inc. No. nKJ1515353221 – Moran 2-6 Tank Battery (State Land) – Closure request report was submitted in December of 2023 and denied by NMOCD on December 22, 2023. The Closure Request Report is currently being revised to address NMOCD comments and will be resubmitted to the Portal.

Ashley Maxwell ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Foord, Scott <William.Foord@arcadis.com>
Sent: Thursday, May 2, 2024 11:02 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Chrisbrand@chevron.com; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

Ashley,

Just following up. Please let me know if you have any questions or need anything additional information.

Thanks,
Scott
Direct 713-953-4853
Cell 281-725-7477

From: Foord, Scott
Sent: Monday, April 29, 2024 9:13 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Chrisbrand@chevron.com; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

Ashley,

Please see responses below and let me know if you need any additional information.

1. Inc. No. nLWJ1016954547 – WLU East Test Sat (State Land) - Additional soil assessment activities completed in February and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
2. Inc. No. nPAC0614230052 & nPAC0718639351 – WLU Water Inj Station (State Land) - Additional soil assessment activities completed in January and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
3. Inc. No. nGRL1006731469 – WLU 41 (Private) - Additional soil assessment activities conducted in January and February 2024. Vertical delineation was not completed, additional assessment will be required and will be conducted within 30 days. A Site Characterization and Remediation Work Plan will be prepared and submitted to NMOCD following completion of assessment activities within the next 30 days.
4. Inc. No. nPAC0708526071 – WLU 47 (Private) - Additional soil assessment activities completed in January and February 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
5. Inc. No. nPAC0617348887 – WLU 56 (Private) - The latest soil assessment was completed in March 2023 and a Site Characterization and Remediation Work Plan was submitted to NMOCD in December 2023. The 2023 Site Characterization and Remediation Work Plan was rejected and is currently being revised to address NMOCD comments for resubmittal to the Portal.
6. Inc. No. nTO1424533890 – Keel Fed Battery (BLM) - Closure request report was submitted in December of 2023 and denied by NMOCD on December 22, 2023. The Closure Request Report is currently being revised to address NMOCD comments and will be resubmitted to the Portal.
7. Inc. No. nKJ1515353221 – Moran 2-6 Tank Battery (State Land) – Closure request report was submitted in December of 2023 and denied by NMOCD on December 22, 2023. The Closure Request Report is currently being revised to address NMOCD comments and will be resubmitted to the Portal.

Thanks,
Scott
Direct 713-953-4853
Cell 281-725-7477

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Wednesday, April 24, 2024 9:27 AM
To: Foord, Scott <William.Foord@arcadis.com>
Cc: Chrisbrand@chevron.com; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

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Good Morning,

Please see the notes below for the requested extensions:

1. Inc. No. nLWJ1016954547 – WLU East Test Sat (State Land)-Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.
2. Inc. No. nPAC0614230052 & nPAC0718639351 – WLU Water Inj Station (State Land)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.

3. Inc. No. nGRL1006731469 – WLU 41 (Private)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.
4. Inc. No. nPAC0712954774 – WLU 47 (Private)-Incident nPAC0712954774 is a duplicate incident. Refer to incident NPAC0708526071 for current status.
5. Inc. No. nPAC0617348887 – WLU 56 (Private)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.
6. Inc. No. nTO1424533890 – Keel Fed Battery (BLM)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.
7. Inc. No. nKJ1515353221 – Moran 2-6 Tank Battery (State Land)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, April 24, 2024 8:04 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

FYI. All are under your review except for the second one.

Nelson V

From: Foord, Scott <William.Foord@arcadis.com>
Sent: Wednesday, April 3, 2024 3:43 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Brand, Chris M <Chrisbrand@chevron.com>; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>
Subject: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

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

Nelson,

We would like to please request 90-day extensions on the 4/30/2024 deadlines for the following sites. Additional assessments are currently ongoing and remediation work plans or closure requests will be submitted within that timeline. We are also working with the other agencies if applicable.

1. Inc. No. nLWJ1016954547 – WLU East Test Sat (State Land)
2. Inc. No. nPAC0614230052 & nPAC0718639351 – WLU Water Inj Station (State Land)

3. Inc. No. nGRL1006731469 – WLU 41 (Private)
4. Inc. No. nPAC0712954774 – WLU 47 (Private)
5. Inc. No. nPAC0617348887 – WLU 56 (Private)
6. Inc. No. nTO1424533890 – Keel Fed Battery (BLM)
7. Inc. No. nKJ1515353221 – Moran 2-6 Tank Battery (State Land)

Thanks,
Scott

Scott Foord PG, RSO, CPM
AFS Group Service Leader
Arcadis U.S., Inc.
10205 Westheimer Road Suite 800 | Houston, Texas | 77042 | USA
T +1 713 953 4853
M +1 281 725 7477
www.arcadis.com







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

Appendix B

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 9/26/2024 9:11:53 AM Revision 1

JOB DESCRIPTION

LPU 89
Lea County, NM

JOB NUMBER

880-47195-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 10/30/2024 9:04:02 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization



Generated
9/26/2024 9:11:53 AM
Revision 1

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

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Laboratory Job ID: 880-47195-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

Glossary

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: LPU 89

Job ID: 880-47195-1

Job ID: 880-47195-1 Eurofins Midland

Job Narrative
880-47195-1

REVISION

The report being provided is a revision of the original report sent on 8/23/2024. The report (revision 1) is being revised due to Revised report to split samples into multiple reports per client request..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 8/13/2024 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 3.1°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-3-2' (880-47195-1), SW-4-2' (880-47195-2), B-1-4' (880-47195-3), B-2-4' (880-47195-4), B-3-4' (880-47195-5), B-4-4' (880-47195-6), B-5-4' (880-47195-7), B-6-4' (880-47195-8), B-7-4' (880-47195-9), B-8-4' (880-47195-10), B-9-4' (880-47195-11), B-10-4' (880-47195-12), B-11-4' (880-47195-13), B-12-4' (880-47195-14), B-13-4' (880-47195-15), B-14-4' (880-47195-16), B-15-4' (880-47195-17), B-16-4' (880-47195-18), B-17-4' (880-47195-19), B-18-4' (880-47195-20), B-19-4' (880-47195-21), B-20-4' (880-47195-22), B-21-4' (880-47195-23), B-22-4' (880-47195-24), B-23-4' (880-47195-25), B-24-4' (880-47195-26), B-25-4' (880-47195-27), B-26-4' (880-47195-28), B-27-4' (880-47195-29), B-28-4' (880-47195-30), B-29-4' (880-47195-31), B-30-4' (880-47195-32), B-31-4' (880-47195-33), B-32-4' (880-47195-34), B-34-4' (880-47195-35), B-35-4' (880-47195-36), B-36-4' (880-47195-37), B-37-4' (880-47195-38), B-38-4' (880-47195-39), B-39-4' (880-47195-40), B-39-4' (880-47195-41) and Backfill (880-47195-42).

GC VOA
Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-88376 and analytical batch 880-88350 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-88376 and analytical batch 880-88350 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-88366 and analytical batch 880-88351 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-17-4' (880-47195-19). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-88295 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) and 1-Chlorooctane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-22-4' (880-47195-24), B-26-4' (880-47195-28), B-36-4' (880-47195-37), (880-47112-A-1-E MS), (880-47112-A-1-F MSD) and (880-47195-A-21-E MS). Evidence of matrix interferences is not obvious.

Eurofins Midland

Case Narrative

Client: Arcadis U.S., Inc.
Project: LPU 89

Job ID: 880-47195-1

Job ID: 880-47195-1 (Continued) Eurofins Midland

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-88308 and analytical batch 880-88292 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-20-4' (880-47195-22), B-23-4' (880-47195-25), B-24-4' (880-47195-26), B-27-4' (880-47195-29), B-31-4' (880-47195-33), B-34-4' (880-47195-35), B-37-4' (880-47195-38) and B-39-4' (880-47195-40). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-88292 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported.

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 880-88305 and analytical batch 880-88322 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-88305 and analytical batch 880-88322 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Client Sample ID: Backfill
Date Collected: 08/12/24 15:20
Date Received: 08/13/24 10:30

Lab Sample ID: 880-47195-42
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/14/24 09:38	08/14/24 16:46	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/14/24 09:38	08/14/24 16:46	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		08/14/24 09:38	08/14/24 16:46	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		08/14/24 09:38	08/14/24 16:46	1
o-Xylene	<0.00159	U *+	0.00201	0.00159	mg/Kg		08/14/24 09:38	08/14/24 16:46	1
Xylenes, Total	<0.00230	U *+	0.00402	0.00230	mg/Kg		08/14/24 09:38	08/14/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/14/24 09:38*	*08/14/24 16:46*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/14/24 09:38*	*08/14/24 16:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			08/14/24 16:46	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	49.8	15.1	mg/Kg			08/13/24 21:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		08/12/24 08:30	08/13/24 21:36	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		08/12/24 08:30	08/13/24 21:36	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		08/12/24 08:30	08/13/24 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/12/24 08:30*	*08/13/24 21:36*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/12/24 08:30*	*08/13/24 21:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.7**		5.00	0.395	mg/Kg			08/13/24 20:38	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-47195-42	Backfill	98	115

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-47195-42	Backfill	106	108

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88365/5-A
Matrix: Solid
Analysis Batch: 88352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/14/24 09:11	08/14/24 12:08	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/14/24 09:11	08/14/24 12:08	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/14/24 09:11	08/14/24 12:08	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/14/24 09:11	08/14/24 12:08	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/14/24 09:11	08/14/24 12:08	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/14/24 09:11	08/14/24 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/14/24 09:11*	*08/14/24 12:08*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/14/24 09:11*	*08/14/24 12:08*	*1*

Lab Sample ID: LCS 880-88365/1-A
Matrix: Solid
Analysis Batch: 88352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1150		mg/Kg		115	70 - 130
Toluene	0.100	0.1039		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1074		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2287		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1124		mg/Kg		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-88365/2-A
Matrix: Solid
Analysis Batch: 88352

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88365

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1220		mg/Kg		122	70 - 130	6	35
Toluene	0.100	0.1099		mg/Kg		110	70 - 130	6	35
Ethylbenzene	0.100	0.1133		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2409		mg/Kg		120	70 - 130	5	35
o-Xylene	0.100	0.1183		mg/Kg		118	70 - 130	5	35

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

Lab Sample ID: MB 880-88366/5-A
Matrix: Solid
Analysis Batch: 88351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/14/24 09:22	08/14/24 13:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/14/24 09:22	08/14/24 13:04	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-88366/5-A
Matrix: Solid
Analysis Batch: 88351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/14/24 09:22	08/14/24 13:04	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/14/24 09:22	08/14/24 13:04	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/14/24 09:22	08/14/24 13:04	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/14/24 09:22	08/14/24 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*08/14/24 09:22*	*08/14/24 13:04*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/14/24 09:22*	*08/14/24 13:04*	*1*

Lab Sample ID: LCS 880-88366/1-A
Matrix: Solid
Analysis Batch: 88351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1012		mg/Kg		101	70 - 130
Toluene	0.100	0.09407		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2050		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130

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

Lab Sample ID: LCSD 880-88366/2-A
Matrix: Solid
Analysis Batch: 88351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88366

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1052		mg/Kg		105	70 - 130	4	35
Toluene	0.100	0.09693		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130	1	35
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-47195-14 MS
Matrix: Solid
Analysis Batch: 88351

Client Sample ID: B-12-4'
Prep Type: Total/NA
Prep Batch: 88366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00140	U	0.100	0.08366		mg/Kg		84	70 - 130
Toluene	<0.00201	U	0.100	0.09580		mg/Kg		96	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.08670		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00229	U F2	0.200	0.1479		mg/Kg		74	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

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

Lab Sample ID: 880-47195-14 MS
Matrix: Solid
Analysis Batch: 88351

Client Sample ID: B-12-4'
Prep Type: Total/NA
Prep Batch: 88366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00159	U F2	0.100	0.07387		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-47195-14 MSD
Matrix: Solid
Analysis Batch: 88351

Client Sample ID: B-12-4'
Prep Type: Total/NA
Prep Batch: 88366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00140	U	0.100	0.1093		mg/Kg		109	70 - 130	27	35
Toluene	<0.00201	U	0.100	0.09343		mg/Kg		93	70 - 130	3	35
Ethylbenzene	<0.00109	U	0.100	0.1113		mg/Kg		111	70 - 130	25	35
m-Xylene & p-Xylene	<0.00229	U F2	0.200	0.2192	F2	mg/Kg		110	70 - 130	39	35
o-Xylene	<0.00159	U F2	0.100	0.1072	F2	mg/Kg		107	70 - 130	37	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 880-88376/5-A
Matrix: Solid
Analysis Batch: 88350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		08/14/24 09:38	08/14/24 13:33	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		08/14/24 09:38	08/14/24 13:33	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		08/14/24 09:38	08/14/24 13:33	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		08/14/24 09:38	08/14/24 13:33	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		08/14/24 09:38	08/14/24 13:33	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		08/14/24 09:38	08/14/24 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*162*	*S1+*	*70 - 130*	*08/14/24 09:38*	*08/14/24 13:33*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*08/14/24 09:38*	*08/14/24 13:33*	*1*

Lab Sample ID: LCS 880-88376/1-A
Matrix: Solid
Analysis Batch: 88350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1203		mg/Kg		120	70 - 130
Toluene	0.100	0.1200		mg/Kg		120	70 - 130
Ethylbenzene	0.100	0.1103		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2257		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-88376/1-A
Matrix: Solid
Analysis Batch: 88350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88376

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-88376/2-A
Matrix: Solid
Analysis Batch: 88350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88376

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1214		mg/Kg		121	70 - 130	1	35
Toluene			0.100	0.1148		mg/Kg		115	70 - 130	4	35
Ethylbenzene			0.100	0.1135		mg/Kg		114	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2517		mg/Kg		126	70 - 130	11	35
o-Xylene			0.100	0.1404	*+	mg/Kg		140	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-47195-34 MS
Matrix: Solid
Analysis Batch: 88350

Client Sample ID: B-32-4'
Prep Type: Total/NA
Prep Batch: 88376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00140	U	0.100	0.1140		mg/Kg		114	70 - 130
Toluene	<0.00201	U	0.100	0.1060		mg/Kg		106	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.08744		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1909		mg/Kg		95	70 - 130
o-Xylene	<0.00159	U *+	0.100	0.1184		mg/Kg		118	70 - 130

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

Lab Sample ID: 880-47195-34 MSD
Matrix: Solid
Analysis Batch: 88350

Client Sample ID: B-32-4'
Prep Type: Total/NA
Prep Batch: 88376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00140	U	0.100	0.1148		mg/Kg		115	70 - 130	1	35
Toluene	<0.00201	U	0.100	0.1136		mg/Kg		114	70 - 130	7	35
Ethylbenzene	<0.00109	U	0.100	0.1049		mg/Kg		105	70 - 130	18	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.2229		mg/Kg		111	70 - 130	15	35
o-Xylene	<0.00159	U *+	0.100	0.1243		mg/Kg		124	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-88142/1-A
Matrix: Solid
Analysis Batch: 88292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/12/24 08:30	08/13/24 09:44	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/12/24 08:30	08/13/24 09:44	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/12/24 08:30	08/13/24 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*08/12/24 08:30*	*08/13/24 09:44*	*1*
o-Terphenyl	*110*		*70 - 130*	*08/12/24 08:30*	*08/13/24 09:44*	*1*

Lab Sample ID: LCS 880-88142/2-A
Matrix: Solid
Analysis Batch: 88292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1088		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1138		mg/Kg		114	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*126*		*70 - 130*

Lab Sample ID: LCSD 880-88142/3-A
Matrix: Solid
Analysis Batch: 88292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1097		mg/Kg		110	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: MB 880-88307/1-A
Matrix: Solid
Analysis Batch: 88295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/13/24 11:53	08/14/24 00:33	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/13/24 11:53	08/14/24 00:33	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/13/24 11:53	08/14/24 00:33	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-88307/1-A
Matrix: Solid
Analysis Batch: 88295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88307

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	08/13/24 11:53	08/14/24 00:33	1
o-Terphenyl	101		70 - 130	08/13/24 11:53	08/14/24 00:33	1

Lab Sample ID: LCS 880-88307/2-A
Matrix: Solid
Analysis Batch: 88295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88307

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	923.1		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	749.8		mg/Kg		75	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-88307/3-A
Matrix: Solid
Analysis Batch: 88295

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88307

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	926.9		mg/Kg		93	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	789.6		mg/Kg		79	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 880-47195-1 MS
Matrix: Solid
Analysis Batch: 88295

Client Sample ID: SW-3-2'
Prep Type: Total/NA
Prep Batch: 88307

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	998	857.4		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U	998	741.2		mg/Kg		74	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	96		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

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

Lab Sample ID: 880-47195-1 MSD
Matrix: Solid
Analysis Batch: 88295

Client Sample ID: SW-3-2'
Prep Type: Total/NA
Prep Batch: 88307

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	<14.5	U	998	814.1		mg/Kg		82	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<15.1	U	998	714.2		mg/Kg		72	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: MB 880-88308/1-A
Matrix: Solid
Analysis Batch: 88292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/13/24 11:57	08/14/24 00:17	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/13/24 11:57	08/14/24 00:17	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/13/24 11:57	08/14/24 00:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*154*	*S1+*	*70 - 130*	*08/13/24 11:57*	*08/14/24 00:17*	*1*
o-Terphenyl	*160*	*S1+*	*70 - 130*	*08/13/24 11:57*	*08/14/24 00:17*	*1*

Lab Sample ID: LCS 880-88308/2-A
Matrix: Solid
Analysis Batch: 88292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	981.1		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	973.9		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 880-88308/3-A
Matrix: Solid
Analysis Batch: 88292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88308

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	971.7		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	957.0		mg/Kg		96	70 - 130	2	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-88308/3-A
Matrix: Solid
Analysis Batch: 88292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88308

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-47195-21 MS
Matrix: Solid
Analysis Batch: 88292

Client Sample ID: B-19-4'
Prep Type: Total/NA
Prep Batch: 88308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	999	870.7		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	<15.0	U	999	918.7		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: 880-47195-21 MSD
Matrix: Solid
Analysis Batch: 88292

Client Sample ID: B-19-4'
Prep Type: Total/NA
Prep Batch: 88308

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	<14.4	U	999	880.9		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.0	U	999	941.7		mg/Kg		94	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	130		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88107/1-A
Matrix: Solid
Analysis Batch: 88304

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			08/13/24 17:54	1

Lab Sample ID: LCS 880-88107/2-A
Matrix: Solid
Analysis Batch: 88304

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.2		mg/Kg		101	90 - 110

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-88107/3-A
Matrix: Solid
Analysis Batch: 88304

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	253.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-88303/1-A
Matrix: Solid
Analysis Batch: 88314

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			08/13/24 21:08	1

Lab Sample ID: LCS 880-88303/2-A
Matrix: Solid
Analysis Batch: 88314

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.9		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-88303/3-A
Matrix: Solid
Analysis Batch: 88314

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	254.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-47195-1 MS
Matrix: Solid
Analysis Batch: 88314

Client Sample ID: SW-3-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	80.5		250	340.0		mg/Kg		104	90 - 110		

Lab Sample ID: 880-47195-1 MSD
Matrix: Solid
Analysis Batch: 88314

Client Sample ID: SW-3-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.5		250	340.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-47195-11 MS
Matrix: Solid
Analysis Batch: 88314

Client Sample ID: B-9-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	29.0		252	280.1		mg/Kg		100	90 - 110		

Lab Sample ID: 880-47195-11 MSD
Matrix: Solid
Analysis Batch: 88314

Client Sample ID: B-9-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29.0		252	280.1		mg/Kg		100	90 - 110	0	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88305/1-A
Matrix: Solid
Analysis Batch: 88322

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			08/14/24 02:42	1

Lab Sample ID: LCS 880-88305/2-A
Matrix: Solid
Analysis Batch: 88322

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	231.4		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-88305/3-A
Matrix: Solid
Analysis Batch: 88322

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	231.8		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 880-47195-21 MS
Matrix: Solid
Analysis Batch: 88322

Client Sample ID: B-19-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	712	F1	252	933.0	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 880-47195-21 MSD
Matrix: Solid
Analysis Batch: 88322

Client Sample ID: B-19-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	712	F1	252	934.2	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: 880-47195-31 MS
Matrix: Solid
Analysis Batch: 88322

Client Sample ID: B-29-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1200		249	1375	4	mg/Kg		71	90 - 110		

Lab Sample ID: 880-47195-31 MSD
Matrix: Solid
Analysis Batch: 88322

Client Sample ID: B-29-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1200		249	1372	4	mg/Kg		70	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 88350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47195-42	Backfill	Total/NA	Solid	8021B	88376

Prep Batch: 88376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47195-42	Backfill	Total/NA	Solid	5030B	

Analysis Batch: 88491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47195-42	Backfill	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 88142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47195-42	Backfill	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47195-42	Backfill	Total/NA	Solid	8015B NM	88142

Analysis Batch: 88405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47195-42	Backfill	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 88107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47195-42	Backfill	Soluble	Solid	DI Leach	

Analysis Batch: 88304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47195-42	Backfill	Soluble	Solid	300.0	88107

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Client Sample ID: Backfill
Date Collected: 08/12/24 15:20
Date Received: 08/13/24 10:30

Lab Sample ID: 880-47195-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	88376	08/14/24 09:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88350	08/14/24 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88491	08/14/24 16:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			88405	08/13/24 21:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	88142	08/12/24 08:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88292	08/13/24 21:36	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	88107	08/13/24 11:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88304	08/13/24 20:38	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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.
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: LPU 89

Job ID: 880-47195-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47195-42	Backfill	Solid	08/12/24 15:20	08/13/24 10:30

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Received by OCD: 10/23/2024 1:19:31 PM

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 880-47195 Chain of Custody

www.xenco.com Page 1 of 5

Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	LPU 89	Turn Around	
Project Number:	30209864	☒ Routine BTEX TPH ☒ Rush C1'	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Heath Boyd	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.1

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	300_ORGFM_28D	8015 Mod_NM	8021B	Sample Comments
SW-3-2'	S	8/12/24	815		C	1	X	X	X	
SW-4-2'			820			1	X	X	X	
B-1-4'			825			1	X	X	X	
B-2-4'			830			1	X	X	X	
B-3-4'			840			1	X	X	X	
B-4-4'			850			1	X	X	X	
B-5-4'			900			1	X	X	X	
B-6-4'			910			1	X	X	X	
B-7-4'			920			1	X	X	X	
B-8-4'	X	X	930		X	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	EC	8/12/24 1555	2 EC 8/12/24		8/13/24 1030
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 47195

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Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	Douglas.Jordan@Arcadis.com
Phone:	281-644-9437	Email:	

Work Order Comments

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

Project Name:	LPU 89	Turn Around	
Project Number:	30209864	☒Routine BTEX TPH ☒Rush C1'	Pres. Code
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Heath Boyd	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: 8021 B	300_ORGFM_28D	8015 Mod_NM	Sample Comments
B-9-4'	S	8/12/24	940		C	1	X	X	X	
B-10-4'			950			1	X	X	X	
B-11-4'			1000			1	X	X	X	
B-12-4'			1010			1	X	X	X	
B-13-4'			1020			1	X	X	X	
B-14-4'			1100			1	X	X	X	
B-15-4'			1110			1	X	X	X	
B-16-4'			1120			1	X	X	X	
B-17-4'			1130			1	X	X	X	
B-18-4'			1140			1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	EC	8/12/24 1555	2 EC 8/12/24		8/13/24 1030
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 47195

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Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	LPH 89	Turn Around	
Project Number:	30209864	☒Routine ~~☒Rush~~ TAT C1'	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Heath Boyd	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 300_ORG_FM-28D	8021 B	8015 Mod_NM	Sample Comments
B-19-4'	S	8/12/24	1150		C	1		X	X	X	
B-20-4'			1200			1		X	X	X	
B-21-4'			1210			1		X	X	X	
B-22-4'			1220			1		X	X	X	
B-23-4'			1230			1		X	X	X	
B-24-4'			1240			1		X	X	X	
B-25-4'			1250			1		X	X	X	
B-26-4'			1300			1		X	X	X	
B-27-4'			1310			1		X	X	X	
B-28-4'	X	X	1320		X	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	EC	8/12/24 1555	2 8/12/24 EC		8/13/24 1030
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 47195

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Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	LPU 89	Turn Around	
Project Number:	30209864	☒ Routine ~~☐ Rush~~ BC 7/24 ☐ Rush CI	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Heath Boyd	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	300.0_DEC FM_28D	8021B	8015 MOD_NM												Sample Comments
B-29-4'	S	8/14/24	1330		C	1		X	X	X												
B-30-4'			1340			1		X	X	X												
B-31-4'			1350			1		X	X	X												
B-32-4'			1400			1		X	X	X												
B-33-4'			1410			1		X	X	X												
B-34-4'			1420			1		X	X	X												
B-35-4'			1430			1		X	X	X												
B-36-4'			1440			1		X	X	X												
B-37-4'			1450			1		X	X	X												
B-38-4'		X	1500			1		X	X	X												

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	EC	8/12/24 1555	2 EC		8/13/24 0730
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 47193

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Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	LPU 89	Turn Around	
Project Number:	30209864	☒Routine ☒Rush CI'	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Heath Boyd	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 300_ORGFM_28D	8021B	8015 MOD_NM	Sample Comments
B-39-4'	S	8/12/24	1510		C	1		X	X	X	
Backfill	S	8/12/24	1520		C	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl 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
1	EC	8/12/24 1555	2 EC		8/13/24 1030
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-47195-1
SDG Number: Lea County, NM

Login Number: 47195
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis U.S., Inc.
98 San Jacinto Blvd.
Suite 414
Austin, Texas 78701

Generated 9/20/2024 10:59:12 AM

JOB DESCRIPTION

WLU 41
Lea County, NM

JOB NUMBER

880-48527-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 10/30/2024 9:04:02 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
9/20/2024 10:59:12 AM

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

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Laboratory Job ID: 880-48527-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 880-48527-1
Project/Site: WLU 41 SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
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: WLU 41

Job ID: 880-48527-1

Job ID: 880-48527-1 Eurofins Midland

Job Narrative
880-48527-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 9/17/2024 10:45 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 4.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-2-2.5' (880-48527-1), B-6-2.5' (880-48527-2), SW-5-2' (880-48527-3), SW-4-2' (880-48527-4), B-8-4' (880-48527-5), B-9-4' (880-48527-6), B-10-4' (880-48527-7), SB-2-8' (880-48527-8), SW-3-2' (880-48527-9) and SW-7-2' (880-48527-10).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-91008 and analytical batch 880-90966 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 sample was outside control limits: (MB 880-91008/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-90966 recovered above the upper control limit for Benzene. 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 880-90966/20).

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

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-91010 and analytical batch 880-91142 contained 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 880-91010 and analytical batch 880-91142 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-5-2' (880-48527-3), B-9-4' (880-48527-6) and (MB 880-91010/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-2-2.5' (880-48527-1). Parent sample is being reprepped and reran for confirmation.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-91220 and analytical batch 880-91224 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-91220/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-2-2.5'

Case Narrative

Client: Arcadis U.S., Inc.
Project: WLU 41

Job ID: 880-48527-1

Job ID: 880-48527-1 (Continued) Eurofins Midland

(880-48527-1). Percent recoveries are based on the amount spiked.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-91024 and analytical batch 880-91026 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: B-2-2.5'

Date Collected: 09/13/24 13:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U F1	0.00198	0.00138	mg/Kg		09/17/24 12:33	09/17/24 15:30	1
Toluene	<0.00198	U F2 F1	0.00198	0.00198	mg/Kg		09/17/24 12:33	09/17/24 15:30	1
Ethylbenzene	<0.00108	U F2 F1	0.00198	0.00108	mg/Kg		09/17/24 12:33	09/17/24 15:30	1
m-Xylene & p-Xylene	<0.00226	U F2 F1	0.00396	0.00226	mg/Kg		09/17/24 12:33	09/17/24 15:30	1
o-Xylene	<0.00157	U F2 F1	0.00198	0.00157	mg/Kg		09/17/24 12:33	09/17/24 15:30	1
Xylenes, Total	<0.00226	U F2 F1	0.00396	0.00226	mg/Kg		09/17/24 12:33	09/17/24 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/17/24 12:33*	*09/17/24 15:30*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*09/17/24 12:33*	*09/17/24 15:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			09/17/24 15:30	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	49.8	15.1	mg/Kg			09/19/24 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		09/19/24 12:48	09/19/24 13:36	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/19/24 12:48	09/19/24 13:36	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/19/24 12:48	09/19/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*182*	*S1+*	*70 - 130*	*09/19/24 12:48*	*09/19/24 13:36*	*1*
o-Terphenyl	*182*	*S1+*	*70 - 130*	*09/19/24 12:48*	*09/19/24 13:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**335**	**F1**	5.01	0.396	mg/Kg			09/17/24 20:31	1

Client Sample ID: B-6-2.5'

Date Collected: 09/13/24 13:40
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/17/24 12:33	09/17/24 15:57	1
Toluene	**0.00216**		0.00202	0.00202	mg/Kg		09/17/24 12:33	09/17/24 15:57	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/17/24 12:33	09/17/24 15:57	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/17/24 12:33	09/17/24 15:57	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/17/24 12:33	09/17/24 15:57	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/17/24 12:33	09/17/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/17/24 12:33*	*09/17/24 15:57*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/17/24 12:33*	*09/17/24 15:57*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: B-6-2.5'

Date Collected: 09/13/24 13:40
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			09/17/24 15:57	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	50.0	15.1	mg/Kg			09/18/24 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	<14.5	U	50.0	14.5	mg/Kg		09/17/24 13:28	09/18/24 17:51	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/17/24 13:28	09/18/24 17:51	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/17/24 13:28	09/18/24 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*09/17/24 13:28*	*09/18/24 17:51*	*1*
o-Terphenyl	*75*		*70 - 130*	*09/17/24 13:28*	*09/18/24 17:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**244**		5.05	0.399	mg/Kg			09/17/24 20:57	1

Client Sample ID: SW-5-2'

Date Collected: 09/13/24 13:50
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/17/24 12:33	09/17/24 16:24	1
Toluene	**0.00217**		0.00200	0.00200	mg/Kg		09/17/24 12:33	09/17/24 16:24	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/17/24 12:33	09/17/24 16:24	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/17/24 12:33	09/17/24 16:24	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/17/24 12:33	09/17/24 16:24	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/17/24 12:33	09/17/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*09/17/24 12:33*	*09/17/24 16:24*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/17/24 12:33*	*09/17/24 16:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/17/24 16:24	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	49.9	15.1	mg/Kg			09/18/24 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	<14.5	U	49.9	14.5	mg/Kg		09/17/24 13:28	09/18/24 18:08	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/17/24 13:28	09/18/24 18:08	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: SW-5-2'

Date Collected: 09/13/24 13:50
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/17/24 13:28	09/18/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*09/17/24 13:28*	*09/18/24 18:08*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*09/17/24 13:28*	*09/18/24 18:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**401**		4.98	0.393	mg/Kg			09/17/24 21:06	1

Client Sample ID: SW-4-2'

Date Collected: 09/13/24 14:00
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/17/24 12:33	09/17/24 16:51	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		09/17/24 12:33	09/17/24 16:51	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		09/17/24 12:33	09/17/24 16:51	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		09/17/24 12:33	09/17/24 16:51	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/17/24 12:33	09/17/24 16:51	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		09/17/24 12:33	09/17/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*09/17/24 12:33*	*09/17/24 16:51*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*09/17/24 12:33*	*09/17/24 16:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			09/17/24 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			09/18/24 18:25	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	<14.5	U	49.8	14.5	mg/Kg		09/17/24 13:28	09/18/24 18:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/17/24 13:28	09/18/24 18:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/17/24 13:28	09/18/24 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/17/24 13:28*	*09/18/24 18:25*	*1*
o-Terphenyl	*70*		*70 - 130*	*09/17/24 13:28*	*09/18/24 18:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**		5.03	0.397	mg/Kg			09/17/24 21:15	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: B-8-4'

Lab Sample ID: 880-48527-5
Matrix: Solid
Date Collected: 09/13/24 16:10
Date Received: 09/17/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/17/24 12:33	09/17/24 17:18	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/17/24 12:33	09/17/24 17:18	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/17/24 12:33	09/17/24 17:18	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/17/24 12:33	09/17/24 17:18	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/17/24 12:33	09/17/24 17:18	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/17/24 12:33	09/17/24 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/17/24 12:33*	*09/17/24 17:18*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/17/24 12:33*	*09/17/24 17:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/17/24 17:18	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	49.7	15.0	mg/Kg			09/18/24 18:42	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	<14.4	U	49.7	14.4	mg/Kg		09/17/24 13:28	09/18/24 18:42	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		09/17/24 13:28	09/18/24 18:42	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/17/24 13:28	09/18/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*09/17/24 13:28*	*09/18/24 18:42*	*1*
o-Terphenyl	*83*		*70 - 130*	*09/17/24 13:28*	*09/18/24 18:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**605**		5.03	0.397	mg/Kg			09/17/24 21:24	1

Client Sample ID: B-9-4'

Lab Sample ID: 880-48527-6
Matrix: Solid
Date Collected: 09/13/24 16:20
Date Received: 09/17/24 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/17/24 12:33	09/17/24 17:45	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/17/24 12:33	09/17/24 17:45	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/17/24 12:33	09/17/24 17:45	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/17/24 12:33	09/17/24 17:45	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/17/24 12:33	09/17/24 17:45	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/17/24 12:33	09/17/24 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/17/24 12:33*	*09/17/24 17:45*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/17/24 12:33*	*09/17/24 17:45*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: B-9-4'

Date Collected: 09/13/24 16:20
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/17/24 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			09/18/24 18:59	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	<14.4	U	49.7	14.4	mg/Kg		09/17/24 13:28	09/18/24 18:59	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		09/17/24 13:28	09/18/24 18:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/17/24 13:28	09/18/24 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*09/17/24 13:28*	*09/18/24 18:59*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*09/17/24 13:28*	*09/18/24 18:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**368**		5.02	0.397	mg/Kg			09/17/24 21:50	1

Client Sample ID: B-10-4'

Date Collected: 09/13/24 16:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		09/17/24 12:33	09/17/24 18:11	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		09/17/24 12:33	09/17/24 18:11	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/17/24 12:33	09/17/24 18:11	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		09/17/24 12:33	09/17/24 18:11	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/17/24 12:33	09/17/24 18:11	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		09/17/24 12:33	09/17/24 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/17/24 12:33*	*09/17/24 18:11*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/17/24 12:33*	*09/17/24 18:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			09/17/24 18:11	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	50.0	15.1	mg/Kg			09/18/24 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/17/24 13:28	09/18/24 19:15	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/17/24 13:28	09/18/24 19:15	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: B-10-4'

Date Collected: 09/13/24 16:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/17/24 13:28	09/18/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*09/17/24 13:28*	*09/18/24 19:15*	*1*
o-Terphenyl	*76*		*70 - 130*	*09/17/24 13:28*	*09/18/24 19:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**751**		5.03	0.397	mg/Kg			09/17/24 21:58	1

Client Sample ID: SB-2-8'

Date Collected: 09/13/24 15:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/17/24 12:33	09/17/24 18:38	1
Toluene	**0.00232**		0.00200	0.00200	mg/Kg		09/17/24 12:33	09/17/24 18:38	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/17/24 12:33	09/17/24 18:38	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/17/24 12:33	09/17/24 18:38	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/17/24 12:33	09/17/24 18:38	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/17/24 12:33	09/17/24 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/17/24 12:33*	*09/17/24 18:38*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/17/24 12:33*	*09/17/24 18:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00232**	**J**	0.00401	0.00229	mg/Kg			09/17/24 18:38	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	49.8	15.1	mg/Kg			09/18/24 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		09/17/24 13:28	09/18/24 19:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/17/24 13:28	09/18/24 19:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/17/24 13:28	09/18/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*09/17/24 13:28*	*09/18/24 19:32*	*1*
o-Terphenyl	*75*		*70 - 130*	*09/17/24 13:28*	*09/18/24 19:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**296**		4.98	0.393	mg/Kg			09/17/24 22:07	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: SW-3-2'

Date Collected: 09/14/24 12:00
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/17/24 12:33	09/17/24 19:05	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/17/24 12:33	09/17/24 19:05	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/17/24 12:33	09/17/24 19:05	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/17/24 12:33	09/17/24 19:05	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/17/24 12:33	09/17/24 19:05	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/17/24 12:33	09/17/24 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/17/24 12:33*	*09/17/24 19:05*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/17/24 12:33*	*09/17/24 19:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/17/24 19:05	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	49.8	15.1	mg/Kg			09/18/24 19:48	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	<14.5	U	49.8	14.5	mg/Kg		09/17/24 13:28	09/18/24 19:48	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/17/24 13:28	09/18/24 19:48	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/17/24 13:28	09/18/24 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*09/17/24 13:28*	*09/18/24 19:48*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/17/24 13:28*	*09/18/24 19:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.7**		4.97	0.393	mg/Kg			09/17/24 22:16	1

Client Sample ID: SW-7-2'

Date Collected: 09/14/24 13:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/17/24 12:33	09/17/24 19:31	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/17/24 12:33	09/17/24 19:31	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/17/24 12:33	09/17/24 19:31	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/17/24 12:33	09/17/24 19:31	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/17/24 12:33	09/17/24 19:31	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/17/24 12:33	09/17/24 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/17/24 12:33*	*09/17/24 19:31*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/17/24 12:33*	*09/17/24 19:31*	*1*

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: SW-7-2'

Date Collected: 09/14/24 13:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-10

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/17/24 19:31	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	49.9	15.1	mg/Kg			09/18/24 20:05	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	<14.5	U	49.9	14.5	mg/Kg		09/17/24 13:28	09/18/24 20:05	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/17/24 13:28	09/18/24 20:05	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/17/24 13:28	09/18/24 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*09/17/24 13:28*	*09/18/24 20:05*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/17/24 13:28*	*09/18/24 20:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.0**		5.05	0.399	mg/Kg			09/17/24 22:25	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-48527-1	B-2-2.5'	98	119
880-48527-1 MS	B-2-2.5'	88	94
880-48527-1 MSD	B-2-2.5'	102	87
880-48527-2	B-6-2.5'	101	112
880-48527-3	SW-5-2'	94	101
880-48527-4	SW-4-2'	91	96
880-48527-5	B-8-4'	111	100
880-48527-6	B-9-4'	101	101
880-48527-7	B-10-4'	99	105
880-48527-8	SB-2-8'	95	100
880-48527-9	SW-3-2'	99	93
880-48527-10	SW-7-2'	97	108
LCS 880-91008/1-A	Lab Control Sample	98	89
LCSD 880-91008/2-A	Lab Control Sample Dup	92	107
MB 880-91008/5-A	Method Blank	57 S1-	102

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-48527-1	B-2-2.5'	182 S1+	182 S1+
880-48527-1 MS	B-2-2.5'	84	77
880-48527-1 MS	B-2-2.5'	113	122
880-48527-1 MSD	B-2-2.5'	84	77
880-48527-1 MSD	B-2-2.5'	108	117
880-48527-2	B-6-2.5'	92	75
880-48527-3	SW-5-2'	84	68 S1-
880-48527-4	SW-4-2'	85	70
880-48527-5	B-8-4'	100	83
880-48527-6	B-9-4'	82	66 S1-
880-48527-7	B-10-4'	93	76
880-48527-8	SB-2-8'	92	75
880-48527-9	SW-3-2'	98	81
880-48527-10	SW-7-2'	96	81
LCS 880-91010/2-A	Lab Control Sample	95	92
LCS 880-91220/2-A	Lab Control Sample	119	132 S1+
LCSD 880-91010/3-A	Lab Control Sample Dup	93	87
LCSD 880-91220/3-A	Lab Control Sample Dup	113	123
MB 880-91010/1-A	Method Blank	132 S1+	116
MB 880-91220/1-A	Method Blank	89	159 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-91008/5-A
Matrix: Solid
Analysis Batch: 90966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/17/24 12:33	09/17/24 15:03	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/17/24 12:33	09/17/24 15:03	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/17/24 12:33	09/17/24 15:03	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/17/24 12:33	09/17/24 15:03	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/17/24 12:33	09/17/24 15:03	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/17/24 12:33	09/17/24 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*09/17/24 12:33*	*09/17/24 15:03*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/17/24 12:33*	*09/17/24 15:03*	*1*

Lab Sample ID: LCS 880-91008/1-A
Matrix: Solid
Analysis Batch: 90966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1007		mg/Kg		101	70 - 130
Toluene	0.100	0.09674		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.08859		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1896		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09176		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-91008/2-A
Matrix: Solid
Analysis Batch: 90966

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91008

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09744		mg/Kg		97	70 - 130	3	35
Toluene	0.100	0.09083		mg/Kg		91	70 - 130	6	35
Ethylbenzene	0.100	0.08920		mg/Kg		89	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1905		mg/Kg		95	70 - 130	0	35
o-Xylene	0.100	0.09525		mg/Kg		95	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-48527-1 MS
Matrix: Solid
Analysis Batch: 90966

Client Sample ID: B-2-2.5'
Prep Type: Total/NA
Prep Batch: 91008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00138	U F1	0.101	0.05023	F1	mg/Kg		50	70 - 130
Toluene	<0.00198	U F2 F1	0.101	0.04546	F1	mg/Kg		45	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

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

Lab Sample ID: 880-48527-1 MS
Matrix: Solid
Analysis Batch: 90966

Client Sample ID: B-2-2.5'
Prep Type: Total/NA
Prep Batch: 91008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00108	U F2 F1	0.101	0.03998	F1	mg/Kg		40	70 - 130
m-Xylene & p-Xylene	<0.00226	U F2 F1	0.202	0.08474	F1	mg/Kg		42	70 - 130
o-Xylene	<0.00157	U F2 F1	0.101	0.04199	F1	mg/Kg		42	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-48527-1 MSD
Matrix: Solid
Analysis Batch: 90966

Client Sample ID: B-2-2.5'
Prep Type: Total/NA
Prep Batch: 91008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00138	U F1	0.0998	0.07185		mg/Kg		72	70 - 130	35	35
Toluene	<0.00198	U F2 F1	0.0998	0.07776	F2	mg/Kg		78	70 - 130	52	35
Ethylbenzene	<0.00108	U F2 F1	0.0998	0.07095	F2	mg/Kg		71	70 - 130	56	35
m-Xylene & p-Xylene	<0.00226	U F2 F1	0.200	0.1474	F2	mg/Kg		74	70 - 130	54	35
o-Xylene	<0.00157	U F2 F1	0.0998	0.07299	F2	mg/Kg		73	70 - 130	54	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

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

Lab Sample ID: MB 880-91010/1-A
Matrix: Solid
Analysis Batch: 91142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/17/24 13:28	09/18/24 13:09	1
Diesel Range Organics (Over C10-C28)	20.93	J	50.0	15.1	mg/Kg		09/17/24 13:28	09/18/24 13:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/17/24 13:28	09/18/24 13:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*09/17/24 13:28*	*09/18/24 13:09*	*1*
o-Terphenyl	*116*		*70 - 130*	*09/17/24 13:28*	*09/18/24 13:09*	*1*

Lab Sample ID: LCS 880-91010/2-A
Matrix: Solid
Analysis Batch: 91142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	880.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	755.3		mg/Kg		76	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-91010/2-A
Matrix: Solid
Analysis Batch: 91142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91010

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-91010/3-A
Matrix: Solid
Analysis Batch: 91142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91010

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	877.7		mg/Kg		88	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	731.9		mg/Kg		73	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 880-48527-1 MS
Matrix: Solid
Analysis Batch: 91142

Client Sample ID: B-2-2.5'
Prep Type: Total/NA
Prep Batch: 91010

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 880-48527-1 MSD
Matrix: Solid
Analysis Batch: 91142

Client Sample ID: B-2-2.5'
Prep Type: Total/NA
Prep Batch: 91010

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: MB 880-91220/1-A
Matrix: Solid
Analysis Batch: 91224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91220

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/19/24 08:48	09/19/24 09:36	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/19/24 08:48	09/19/24 09:36	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/19/24 08:48	09/19/24 09:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	09/19/24 08:48	09/19/24 09:36	1
o-Terphenyl	159	S1+	70 - 130	09/19/24 08:48	09/19/24 09:36	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-91220/2-A
Matrix: Solid
Analysis Batch: 91224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91220

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1019		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1018		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*132*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-91220/3-A
Matrix: Solid
Analysis Batch: 91224

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91220

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	976.6		mg/Kg		98	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	961.3		mg/Kg		96	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*113*		*70 - 130*
o-Terphenyl	*123*		*70 - 130*

Lab Sample ID: 880-48527-1 MS
Matrix: Solid
Analysis Batch: 91224

Client Sample ID: B-2-2.5'
Prep Type: Total/NA
Prep Batch: 91220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	1010	1073		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U	1010	1112		mg/Kg		111	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*113*		*70 - 130*
o-Terphenyl	*122*		*70 - 130*

Lab Sample ID: 880-48527-1 MSD
Matrix: Solid
Analysis Batch: 91224

Client Sample ID: B-2-2.5'
Prep Type: Total/NA
Prep Batch: 91220

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	<14.5	U	1010	1056		mg/Kg		105	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<15.1	U	1010	1056		mg/Kg		105	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

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

Lab Sample ID: 880-48527-1 MSD
Matrix: Solid
Analysis Batch: 91224

Client Sample ID: B-2-2.5'
Prep Type: Total/NA
Prep Batch: 91220

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-91024/1-A
Matrix: Solid
Analysis Batch: 91026

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			09/17/24 20:05	1

Lab Sample ID: LCS 880-91024/2-A
Matrix: Solid
Analysis Batch: 91026

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	231.7		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-91024/3-A
Matrix: Solid
Analysis Batch: 91026

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	235.9		mg/Kg		94	90 - 110	2	20

Lab Sample ID: 880-48527-1 MS
Matrix: Solid
Analysis Batch: 91026

Client Sample ID: B-2-2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	335	F1	251	544.7	F1	mg/Kg		84	90 - 110		

Lab Sample ID: 880-48527-1 MSD
Matrix: Solid
Analysis Batch: 91026

Client Sample ID: B-2-2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	335	F1	251	555.2	F1	mg/Kg		88	90 - 110	2	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 90966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-1	B-2-2.5'	Total/NA	Solid	8021B	91008
880-48527-2	B-6-2.5'	Total/NA	Solid	8021B	91008
880-48527-3	SW-5-2'	Total/NA	Solid	8021B	91008
880-48527-4	SW-4-2'	Total/NA	Solid	8021B	91008
880-48527-5	B-8-4'	Total/NA	Solid	8021B	91008
880-48527-6	B-9-4'	Total/NA	Solid	8021B	91008
880-48527-7	B-10-4'	Total/NA	Solid	8021B	91008
880-48527-8	SB-2-8'	Total/NA	Solid	8021B	91008
880-48527-9	SW-3-2'	Total/NA	Solid	8021B	91008
880-48527-10	SW-7-2'	Total/NA	Solid	8021B	91008
MB 880-91008/5-A	Method Blank	Total/NA	Solid	8021B	91008
LCS 880-91008/1-A	Lab Control Sample	Total/NA	Solid	8021B	91008
LCSD 880-91008/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91008
880-48527-1 MS	B-2-2.5'	Total/NA	Solid	8021B	91008
880-48527-1 MSD	B-2-2.5'	Total/NA	Solid	8021B	91008

Prep Batch: 91008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-1	B-2-2.5'	Total/NA	Solid	5030B	
880-48527-2	B-6-2.5'	Total/NA	Solid	5030B	
880-48527-3	SW-5-2'	Total/NA	Solid	5030B	
880-48527-4	SW-4-2'	Total/NA	Solid	5030B	
880-48527-5	B-8-4'	Total/NA	Solid	5030B	
880-48527-6	B-9-4'	Total/NA	Solid	5030B	
880-48527-7	B-10-4'	Total/NA	Solid	5030B	
880-48527-8	SB-2-8'	Total/NA	Solid	5030B	
880-48527-9	SW-3-2'	Total/NA	Solid	5030B	
880-48527-10	SW-7-2'	Total/NA	Solid	5030B	
MB 880-91008/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91008/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91008/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-48527-1 MS	B-2-2.5'	Total/NA	Solid	5030B	
880-48527-1 MSD	B-2-2.5'	Total/NA	Solid	5030B	

Analysis Batch: 91133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-1	B-2-2.5'	Total/NA	Solid	Total BTEX	
880-48527-2	B-6-2.5'	Total/NA	Solid	Total BTEX	
880-48527-3	SW-5-2'	Total/NA	Solid	Total BTEX	
880-48527-4	SW-4-2'	Total/NA	Solid	Total BTEX	
880-48527-5	B-8-4'	Total/NA	Solid	Total BTEX	
880-48527-6	B-9-4'	Total/NA	Solid	Total BTEX	
880-48527-7	B-10-4'	Total/NA	Solid	Total BTEX	
880-48527-8	SB-2-8'	Total/NA	Solid	Total BTEX	
880-48527-9	SW-3-2'	Total/NA	Solid	Total BTEX	
880-48527-10	SW-7-2'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

GC Semi VOA

Prep Batch: 91010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-2	B-6-2.5'	Total/NA	Solid	8015NM Prep	
880-48527-3	SW-5-2'	Total/NA	Solid	8015NM Prep	
880-48527-4	SW-4-2'	Total/NA	Solid	8015NM Prep	
880-48527-5	B-8-4'	Total/NA	Solid	8015NM Prep	
880-48527-6	B-9-4'	Total/NA	Solid	8015NM Prep	
880-48527-7	B-10-4'	Total/NA	Solid	8015NM Prep	
880-48527-8	SB-2-8'	Total/NA	Solid	8015NM Prep	
880-48527-9	SW-3-2'	Total/NA	Solid	8015NM Prep	
880-48527-10	SW-7-2'	Total/NA	Solid	8015NM Prep	
MB 880-91010/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91010/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-48527-1 MS	B-2-2.5'	Total/NA	Solid	8015NM Prep	
880-48527-1 MSD	B-2-2.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 91142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-2	B-6-2.5'	Total/NA	Solid	8015B NM	91010
880-48527-3	SW-5-2'	Total/NA	Solid	8015B NM	91010
880-48527-4	SW-4-2'	Total/NA	Solid	8015B NM	91010
880-48527-5	B-8-4'	Total/NA	Solid	8015B NM	91010
880-48527-6	B-9-4'	Total/NA	Solid	8015B NM	91010
880-48527-7	B-10-4'	Total/NA	Solid	8015B NM	91010
880-48527-8	SB-2-8'	Total/NA	Solid	8015B NM	91010
880-48527-9	SW-3-2'	Total/NA	Solid	8015B NM	91010
880-48527-10	SW-7-2'	Total/NA	Solid	8015B NM	91010
MB 880-91010/1-A	Method Blank	Total/NA	Solid	8015B NM	91010
LCS 880-91010/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91010
LCSD 880-91010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91010
880-48527-1 MS	B-2-2.5'	Total/NA	Solid	8015B NM	91010
880-48527-1 MSD	B-2-2.5'	Total/NA	Solid	8015B NM	91010

Analysis Batch: 91207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-1	B-2-2.5'	Total/NA	Solid	8015 NM	
880-48527-2	B-6-2.5'	Total/NA	Solid	8015 NM	
880-48527-3	SW-5-2'	Total/NA	Solid	8015 NM	
880-48527-4	SW-4-2'	Total/NA	Solid	8015 NM	
880-48527-5	B-8-4'	Total/NA	Solid	8015 NM	
880-48527-6	B-9-4'	Total/NA	Solid	8015 NM	
880-48527-7	B-10-4'	Total/NA	Solid	8015 NM	
880-48527-8	SB-2-8'	Total/NA	Solid	8015 NM	
880-48527-9	SW-3-2'	Total/NA	Solid	8015 NM	
880-48527-10	SW-7-2'	Total/NA	Solid	8015 NM	

Prep Batch: 91220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-1	B-2-2.5'	Total/NA	Solid	8015NM Prep	
MB 880-91220/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91220/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91220/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 91220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-1 MS	B-2-2.5'	Total/NA	Solid	8015NM Prep	
880-48527-1 MSD	B-2-2.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 91224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-1	B-2-2.5'	Total/NA	Solid	8015B NM	91220
MB 880-91220/1-A	Method Blank	Total/NA	Solid	8015B NM	91220
LCS 880-91220/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91220
LCSD 880-91220/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91220
880-48527-1 MS	B-2-2.5'	Total/NA	Solid	8015B NM	91220
880-48527-1 MSD	B-2-2.5'	Total/NA	Solid	8015B NM	91220

HPLC/IC

Leach Batch: 91024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-1	B-2-2.5'	Soluble	Solid	DI Leach	
880-48527-2	B-6-2.5'	Soluble	Solid	DI Leach	
880-48527-3	SW-5-2'	Soluble	Solid	DI Leach	
880-48527-4	SW-4-2'	Soluble	Solid	DI Leach	
880-48527-5	B-8-4'	Soluble	Solid	DI Leach	
880-48527-6	B-9-4'	Soluble	Solid	DI Leach	
880-48527-7	B-10-4'	Soluble	Solid	DI Leach	
880-48527-8	SB-2-8'	Soluble	Solid	DI Leach	
880-48527-9	SW-3-2'	Soluble	Solid	DI Leach	
880-48527-10	SW-7-2'	Soluble	Solid	DI Leach	
MB 880-91024/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91024/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91024/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48527-1 MS	B-2-2.5'	Soluble	Solid	DI Leach	
880-48527-1 MSD	B-2-2.5'	Soluble	Solid	DI Leach	

Analysis Batch: 91026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48527-1	B-2-2.5'	Soluble	Solid	300.0	91024
880-48527-2	B-6-2.5'	Soluble	Solid	300.0	91024
880-48527-3	SW-5-2'	Soluble	Solid	300.0	91024
880-48527-4	SW-4-2'	Soluble	Solid	300.0	91024
880-48527-5	B-8-4'	Soluble	Solid	300.0	91024
880-48527-6	B-9-4'	Soluble	Solid	300.0	91024
880-48527-7	B-10-4'	Soluble	Solid	300.0	91024
880-48527-8	SB-2-8'	Soluble	Solid	300.0	91024
880-48527-9	SW-3-2'	Soluble	Solid	300.0	91024
880-48527-10	SW-7-2'	Soluble	Solid	300.0	91024
MB 880-91024/1-A	Method Blank	Soluble	Solid	300.0	91024
LCS 880-91024/2-A	Lab Control Sample	Soluble	Solid	300.0	91024
LCSD 880-91024/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91024
880-48527-1 MS	B-2-2.5'	Soluble	Solid	300.0	91024
880-48527-1 MSD	B-2-2.5'	Soluble	Solid	300.0	91024

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: B-2-2.5'

Date Collected: 09/13/24 13:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-1

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	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 15:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			91207	09/19/24 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91220	09/19/24 12:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91224	09/19/24 13:36	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 20:31	CH	EET MID

Client Sample ID: B-6-2.5'

Date Collected: 09/13/24 13:40
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 15:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 15:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			91207	09/18/24 17:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91010	09/17/24 13:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91142	09/18/24 17:51	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 20:57	CH	EET MID

Client Sample ID: SW-5-2'

Date Collected: 09/13/24 13:50
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-3

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			4.99 g	5 mL	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 16:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 16:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			91207	09/18/24 18:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	91010	09/17/24 13:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91142	09/18/24 18:08	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 21:06	CH	EET MID

Client Sample ID: SW-4-2'

Date Collected: 09/13/24 14:00
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-4

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			4.98 g	5 mL	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 16:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 16:51	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: SW-4-2'
Date Collected: 09/13/24 14:00
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91207	09/18/24 18:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91010	09/17/24 13:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91142	09/18/24 18:25	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 21:15	CH	EET MID

Client Sample ID: B-8-4'
Date Collected: 09/13/24 16:10
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-5
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	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 17:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 17:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			91207	09/18/24 18:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	91010	09/17/24 13:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91142	09/18/24 18:42	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 21:24	CH	EET MID

Client Sample ID: B-9-4'
Date Collected: 09/13/24 16:20
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-6
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			5.01 g	5 mL	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 17:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 17:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			91207	09/18/24 18:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91010	09/17/24 13:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91142	09/18/24 18:59	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 21:50	CH	EET MID

Client Sample ID: B-10-4'
Date Collected: 09/13/24 16:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 18:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			91207	09/18/24 19:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91010	09/17/24 13:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91142	09/18/24 19:15	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Client Sample ID: B-10-4'
Date Collected: 09/13/24 16:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-7
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			4.97 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 21:58	CH	EET MID

Client Sample ID: SB-2-8'
Date Collected: 09/13/24 15:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-8
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			4.99 g	5 mL	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 18:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			91207	09/18/24 19:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91010	09/17/24 13:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91142	09/18/24 19:32	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 22:07	CH	EET MID

Client Sample ID: SW-3-2'
Date Collected: 09/14/24 12:00
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-9
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			5.02 g	5 mL	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 19:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			91207	09/18/24 19:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91010	09/17/24 13:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91142	09/18/24 19:48	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 22:16	CH	EET MID

Client Sample ID: SW-7-2'
Date Collected: 09/14/24 13:30
Date Received: 09/17/24 10:45

Lab Sample ID: 880-48527-10
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			5.02 g	5 mL	91008	09/17/24 12:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90966	09/17/24 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91133	09/17/24 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			91207	09/18/24 20:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91010	09/17/24 13:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91142	09/18/24 20:05	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91024	09/17/24 15:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91026	09/17/24 22:25	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

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: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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.

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: WLU 41

Job ID: 880-48527-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-48527-1	B-2-2.5'	Solid	09/13/24 13:30	09/17/24 10:45
880-48527-2	B-6-2.5'	Solid	09/13/24 13:40	09/17/24 10:45
880-48527-3	SW-5-2'	Solid	09/13/24 13:50	09/17/24 10:45
880-48527-4	SW-4-2'	Solid	09/13/24 14:00	09/17/24 10:45
880-48527-5	B-8-4'	Solid	09/13/24 16:10	09/17/24 10:45
880-48527-6	B-9-4'	Solid	09/13/24 16:20	09/17/24 10:45
880-48527-7	B-10-4'	Solid	09/13/24 16:30	09/17/24 10:45
880-48527-8	SB-2-8'	Solid	09/13/24 15:30	09/17/24 10:45
880-48527-9	SW-3-2'	Solid	09/14/24 12:00	09/17/24 10:45
880-48527-10	SW-7-2'	Solid	09/14/24 13:30	09/17/24 10:45

Released to Imaging: 10/30/2024 9:04:02 AM
Received by OCD: 10/23/2024 1:19:31 PM

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Morgan Jordan
Company Name: Arcadis
Company Address:
City/State/Zip:
Telephone No: 281-644-9437
Fax No:
Sampler Signature:
e-mail: Douglas.Jordan@Arcadis.com

Project Name: WLU 41
Project #: 30237085
Project Loc: Lea County, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 880-48527 Chain of Custody

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 (8015M) 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B 5030 or BTEX 8260	RCI	N.O.R.M.	Cl, M300	RUSH TAT (Pre-Schedule) 24 48 72 hrs	Standard TAT
	B-2-2.5'			9/13/24	1330		1									S			X							X			X	X	
	B-6-2.5'				1340		1												X							X			X	X	
	SW-5-2'				1350		1												X							X			X	X	
	SW-4-2'				1400		1												X							X			X	X	
	B-8-4'				1610		1												X							X			X	X	
	B-9-4'				1620		1												X							X			X	X	
	B-10-4'				1630		1												X							X			X	X	
	SB-2-8'			"	1530		1												X							X			X	X	
	SW-3-2'			9/14/24	1200		1												X							X			X	X	
	SW-7-2'			9/14/24	1330		1												X							X			X	X	

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	9/16/24	0845		9/16/24	8:48
Relinquished by:	Date	Time	Received by:	Date	Time
				9/17/24	1045
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

	As Read	Corrected
Temperature Upon Receipt:	4.9	4.8 °C

9/20/2024

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Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-48527-1
SDG Number: Lea County, NM

Login Number: 48527
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis U.S., Inc.
98 San Jacinto Blvd.
Suite 414
Austin, Texas 78701

Generated 9/24/2024 11:42:36 PM

JOB DESCRIPTION

WLU 41
Lea County, NM

JOB NUMBER

880-48695-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 10/30/2024 9:04:02 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
9/24/2024 11:42:36 PM

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

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Laboratory Job ID: 880-48695-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: WLU 41

Job ID: 880-48695-1

Job ID: 880-48695-1 Eurofins Midland

Job Narrative
880-48695-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 9/19/2024 11:00 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 2.3°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-6-2' (880-48695-1), SW-2-2' (880-48695-2), SW-1-2' (880-48695-3), B-1-2.5' (880-48695-4), B-3-2.5' (880-48695-5), B-4-2.5' (880-48695-6), B-5-2.5' (880-48695-7), B-11-2.5' (880-48695-8) and B-12-2.5' (880-48695-9).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91078 and analytical batch 880-91173 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91221 and analytical batch 880-91173 was outside the upper control limits.

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-6-2' (880-48695-1). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-91260 and analytical batch 880-91396 was outside the upper control limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-91396 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 880-91396/21).

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

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

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: SW-6-2'

Date Collected: 09/16/24 12:00
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		09/19/24 12:52	09/20/24 01:09	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		09/19/24 12:52	09/20/24 01:09	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/19/24 12:52	09/20/24 01:09	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		09/19/24 12:52	09/20/24 01:09	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/19/24 12:52	09/20/24 01:09	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		09/19/24 12:52	09/20/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/19/24 12:52*	*09/20/24 01:09*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/19/24 12:52*	*09/20/24 01:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			09/20/24 01:09	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	49.9	15.1	mg/Kg			09/21/24 15:30	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	<14.5	U	49.9	14.5	mg/Kg		09/19/24 18:12	09/21/24 15:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/19/24 18:12	09/21/24 15:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/19/24 18:12	09/21/24 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*09/19/24 18:12*	*09/21/24 15:30*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/19/24 18:12*	*09/21/24 15:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.0**		4.95	0.391	mg/Kg			09/20/24 01:40	1

Client Sample ID: SW-2-2'

Date Collected: 09/17/24 10:30
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/19/24 12:52	09/20/24 01:29	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/19/24 12:52	09/20/24 01:29	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/19/24 12:52	09/20/24 01:29	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/19/24 12:52	09/20/24 01:29	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/19/24 12:52	09/20/24 01:29	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/19/24 12:52	09/20/24 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/19/24 12:52*	*09/20/24 01:29*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/19/24 12:52*	*09/20/24 01:29*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: SW-2-2'

Date Collected: 09/17/24 10:30
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/20/24 01:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.5	15.3	mg/Kg			09/21/24 16:19	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	<14.7	U	50.5	14.7	mg/Kg		09/19/24 18:12	09/21/24 16:19	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.5	15.3	mg/Kg		09/19/24 18:12	09/21/24 16:19	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg		09/19/24 18:12	09/21/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*09/19/24 18:12*	*09/21/24 16:19*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/19/24 18:12*	*09/21/24 16:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.9**		4.95	0.391	mg/Kg			09/20/24 02:00	1

Client Sample ID: SW-1-2'

Date Collected: 09/17/24 10:45
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/19/24 12:52	09/20/24 01:50	1
Toluene	**0.00209**		0.00202	0.00202	mg/Kg		09/19/24 12:52	09/20/24 01:50	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/19/24 12:52	09/20/24 01:50	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/19/24 12:52	09/20/24 01:50	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/19/24 12:52	09/20/24 01:50	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/19/24 12:52	09/20/24 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/19/24 12:52*	*09/20/24 01:50*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/19/24 12:52*	*09/20/24 01:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			09/20/24 01:50	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	50.1	15.1	mg/Kg			09/21/24 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.1	14.5	mg/Kg		09/19/24 18:12	09/21/24 16:36	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.1	15.1	mg/Kg		09/19/24 18:12	09/21/24 16:36	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: SW-1-2'
Date Collected: 09/17/24 10:45
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		09/19/24 18:12	09/21/24 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*09/19/24 18:12*	*09/21/24 16:36*	*1*
o-Terphenyl	*89*		*70 - 130*	*09/19/24 18:12*	*09/21/24 16:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.9**		4.96	0.392	mg/Kg			09/20/24 02:07	1

Client Sample ID: B-1-2.5'
Date Collected: 09/17/24 15:00
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/19/24 12:52	09/20/24 02:10	1
Toluene	**0.00341**		0.00199	0.00199	mg/Kg		09/19/24 12:52	09/20/24 02:10	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/19/24 12:52	09/20/24 02:10	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/19/24 12:52	09/20/24 02:10	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/19/24 12:52	09/20/24 02:10	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/19/24 12:52	09/20/24 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/19/24 12:52*	*09/20/24 02:10*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/19/24 12:52*	*09/20/24 02:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00341**	**J**	0.00398	0.00228	mg/Kg			09/20/24 02:10	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	49.7	15.0	mg/Kg			09/21/24 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		09/19/24 18:12	09/21/24 16:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		09/19/24 18:12	09/21/24 16:52	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/19/24 18:12	09/21/24 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*09/19/24 18:12*	*09/21/24 16:52*	*1*
o-Terphenyl	*91*		*70 - 130*	*09/19/24 18:12*	*09/21/24 16:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.3**		5.04	0.398	mg/Kg			09/20/24 02:14	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: B-3-2.5'

Date Collected: 09/17/24 15:10
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/19/24 12:52	09/20/24 02:31	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/19/24 12:52	09/20/24 02:31	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/19/24 12:52	09/20/24 02:31	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/19/24 12:52	09/20/24 02:31	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/19/24 12:52	09/20/24 02:31	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/19/24 12:52	09/20/24 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*09/19/24 12:52*	*09/20/24 02:31*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*09/19/24 12:52*	*09/20/24 02:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/20/24 02:31	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	49.9	15.1	mg/Kg			09/21/24 17:08	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	<14.5	U	49.9	14.5	mg/Kg		09/19/24 18:12	09/21/24 17:08	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/19/24 18:12	09/21/24 17:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/19/24 18:12	09/21/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*09/19/24 18:12*	*09/21/24 17:08*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/19/24 18:12*	*09/21/24 17:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**231**		5.00	0.395	mg/Kg			09/20/24 02:20	1

Client Sample ID: B-4-2.5'

Date Collected: 09/17/24 15:20
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/19/24 12:52	09/20/24 02:51	1
Toluene	**0.00392**		0.00200	0.00200	mg/Kg		09/19/24 12:52	09/20/24 02:51	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/19/24 12:52	09/20/24 02:51	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/19/24 12:52	09/20/24 02:51	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/19/24 12:52	09/20/24 02:51	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/19/24 12:52	09/20/24 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/19/24 12:52*	*09/20/24 02:51*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/19/24 12:52*	*09/20/24 02:51*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: B-4-2.5'

Date Collected: 09/17/24 15:20
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-6

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00392**	**J**	0.00399	0.00228	mg/Kg			09/20/24 02:51	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	50.0	15.1	mg/Kg			09/21/24 17:25	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	<14.5	U	50.0	14.5	mg/Kg		09/19/24 18:12	09/21/24 17:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/19/24 18:12	09/21/24 17:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/19/24 18:12	09/21/24 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*09/19/24 18:12*	*09/21/24 17:25*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/19/24 18:12*	*09/21/24 17:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.0**		5.01	0.396	mg/Kg			09/20/24 02:40	1

Client Sample ID: B-5-2.5'

Date Collected: 09/17/24 15:30
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/19/24 12:52	09/20/24 03:12	1
Toluene	**0.00488**		0.00199	0.00199	mg/Kg		09/19/24 12:52	09/20/24 03:12	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/19/24 12:52	09/20/24 03:12	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/19/24 12:52	09/20/24 03:12	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/19/24 12:52	09/20/24 03:12	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/19/24 12:52	09/20/24 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*09/19/24 12:52*	*09/20/24 03:12*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/19/24 12:52*	*09/20/24 03:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00488**		0.00398	0.00228	mg/Kg			09/20/24 03:12	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	49.9	15.1	mg/Kg			09/21/24 17:41	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	<14.5	U	49.9	14.5	mg/Kg		09/19/24 18:12	09/21/24 17:41	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/19/24 18:12	09/21/24 17:41	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: B-5-2.5'
Date Collected: 09/17/24 15:30
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/19/24 18:12	09/21/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*09/19/24 18:12*	*09/21/24 17:41*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/19/24 18:12*	*09/21/24 17:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		5.03	0.397	mg/Kg			09/20/24 02:47	1

Client Sample ID: B-11-2.5'
Date Collected: 09/17/24 15:40
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		09/19/24 12:52	09/20/24 03:32	1
Toluene	**0.00295**		0.00198	0.00198	mg/Kg		09/19/24 12:52	09/20/24 03:32	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		09/19/24 12:52	09/20/24 03:32	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		09/19/24 12:52	09/20/24 03:32	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		09/19/24 12:52	09/20/24 03:32	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		09/19/24 12:52	09/20/24 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/19/24 12:52*	*09/20/24 03:32*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/19/24 12:52*	*09/20/24 03:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00295**	**J**	0.00396	0.00226	mg/Kg			09/20/24 03:32	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	49.7	15.0	mg/Kg			09/21/24 17:58	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	<14.4	U	49.7	14.4	mg/Kg		09/19/24 18:12	09/21/24 17:58	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		09/19/24 18:12	09/21/24 17:58	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/19/24 18:12	09/21/24 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*09/19/24 18:12*	*09/21/24 17:58*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/19/24 18:12*	*09/21/24 17:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		4.98	0.393	mg/Kg			09/20/24 02:54	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: B-12-2.5'

Date Collected: 09/17/24 15:50
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/19/24 12:52	09/20/24 03:53	1
Toluene	**0.00704**		0.00200	0.00200	mg/Kg		09/19/24 12:52	09/20/24 03:53	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/19/24 12:52	09/20/24 03:53	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/19/24 12:52	09/20/24 03:53	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/19/24 12:52	09/20/24 03:53	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/19/24 12:52	09/20/24 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/19/24 12:52*	*09/20/24 03:53*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*09/19/24 12:52*	*09/20/24 03:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00704**		0.00399	0.00228	mg/Kg			09/20/24 03:53	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	49.8	15.1	mg/Kg			09/21/24 18:14	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	<14.5	U	49.8	14.5	mg/Kg		09/19/24 18:12	09/21/24 18:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/19/24 18:12	09/21/24 18:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/19/24 18:12	09/21/24 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*09/19/24 18:12*	*09/21/24 18:14*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/19/24 18:12*	*09/21/24 18:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		5.01	0.396	mg/Kg			09/20/24 08:59	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-48695-1	SW-6-2'	90	100
880-48695-1 MS	SW-6-2'	103	98
880-48695-1 MSD	SW-6-2'	110	95
880-48695-2	SW-2-2'	114	107
880-48695-3	SW-1-2'	106	103
880-48695-4	B-1-2.5'	119	108
880-48695-5	B-3-2.5'	118	111
880-48695-6	B-4-2.5'	111	98
880-48695-7	B-5-2.5'	126	107
880-48695-8	B-11-2.5'	119	101
880-48695-9	B-12-2.5'	119	115
LCS 880-91221/1-A	Lab Control Sample	96	94
LCSD 880-91221/2-A	Lab Control Sample Dup	115	97
MB 880-91078/5-A	Method Blank	200 S1+	126
MB 880-91221/5-A	Method Blank	149 S1+	106

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)
880-48695-1	SW-6-2'	104	86
880-48695-1 MS	SW-6-2'	99	90
880-48695-1 MSD	SW-6-2'	99	89
880-48695-2	SW-2-2'	109	88
880-48695-3	SW-1-2'	110	89
880-48695-4	B-1-2.5'	111	91
880-48695-5	B-3-2.5'	105	86
880-48695-6	B-4-2.5'	106	88
880-48695-7	B-5-2.5'	104	86
880-48695-8	B-11-2.5'	105	86
880-48695-9	B-12-2.5'	105	86
LCS 880-91260/2-A	Lab Control Sample	120	113
LCSD 880-91260/3-A	Lab Control Sample Dup	114	106
MB 880-91260/1-A	Method Blank	89	147 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-91078/5-A
Matrix: Solid
Analysis Batch: 91173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/18/24 10:04	09/19/24 13:01	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/18/24 10:04	09/19/24 13:01	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/18/24 10:04	09/19/24 13:01	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/18/24 10:04	09/19/24 13:01	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/18/24 10:04	09/19/24 13:01	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/18/24 10:04	09/19/24 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*200*	*S1+*	*70 - 130*	*09/18/24 10:04*	*09/19/24 13:01*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*09/18/24 10:04*	*09/19/24 13:01*	*1*

Lab Sample ID: MB 880-91221/5-A
Matrix: Solid
Analysis Batch: 91173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/19/24 12:52	09/20/24 00:40	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/19/24 12:52	09/20/24 00:40	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/19/24 12:52	09/20/24 00:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/19/24 12:52	09/20/24 00:40	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/19/24 12:52	09/20/24 00:40	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/19/24 12:52	09/20/24 00:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*09/19/24 12:52*	*09/20/24 00:40*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/19/24 12:52*	*09/20/24 00:40*	*1*

Lab Sample ID: LCS 880-91221/1-A
Matrix: Solid
Analysis Batch: 91173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08777		mg/Kg		88	70 - 130
Toluene	0.100	0.08581		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08519		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1654		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08769		mg/Kg		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-91221/2-A
Matrix: Solid
Analysis Batch: 91173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91221

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09034		mg/Kg		90	70 - 130	3	35

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-91221/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91173 — **Prep Batch: 91221**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08584		mg/Kg		86	70 - 130	0	35
Ethylbenzene			0.100	0.09118		mg/Kg		91	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1854		mg/Kg		93	70 - 130	11	35
o-Xylene			0.100	0.09262		mg/Kg		93	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-48695-1 MS — **Client Sample ID: SW-6-2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91173 — **Prep Batch: 91221**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00141	U	0.101	0.08599		mg/Kg		85	70 - 130
Toluene	<0.00202	U	0.101	0.08005		mg/Kg		79	70 - 130
Ethylbenzene	<0.00110	U	0.101	0.08025		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00231	U	0.202	0.1659		mg/Kg		82	70 - 130
o-Xylene	<0.00160	U	0.101	0.08369		mg/Kg		83	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-48695-1 MSD — **Client Sample ID: SW-6-2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91173 — **Prep Batch: 91221**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00141	U	0.0998	0.07171		mg/Kg		72	70 - 130	18	35
Toluene	<0.00202	U	0.0998	0.07406		mg/Kg		74	70 - 130	8	35
Ethylbenzene	<0.00110	U	0.0998	0.07119		mg/Kg		71	70 - 130	12	35
m-Xylene & p-Xylene	<0.00231	U	0.200	0.1623		mg/Kg		81	70 - 130	2	35
o-Xylene	<0.00160	U	0.0998	0.09060		mg/Kg		91	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

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

Lab Sample ID: MB 880-91260/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91396 — **Prep Batch: 91260**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/19/24 18:11	09/21/24 02:50	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-91260/1-A
Matrix: Solid
Analysis Batch: 91396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/19/24 18:11	09/21/24 02:50	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/19/24 18:11	09/21/24 02:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*09/19/24 18:11*	*09/21/24 02:50*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*09/19/24 18:11*	*09/21/24 02:50*	*1*

Lab Sample ID: LCS 880-91260/2-A
Matrix: Solid
Analysis Batch: 91396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91260

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1105		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	954.0		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: LCSD 880-91260/3-A
Matrix: Solid
Analysis Batch: 91396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91260

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1065		mg/Kg		107	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	887.6		mg/Kg		89	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Lab Sample ID: 880-48695-1 MS
Matrix: Solid
Analysis Batch: 91396

Client Sample ID: SW-6-2'
Prep Type: Total/NA
Prep Batch: 91260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	1010	976.5		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U	1010	798.4		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

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

Lab Sample ID: 880-48695-1 MSD — **Client Sample ID: SW-6-2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91396 — **Prep Batch: 91260**

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	<14.5	U	1010	949.6		mg/Kg		94	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<15.1	U	1010	804.0		mg/Kg		80	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-91231/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 91241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			09/20/24 01:20	1

Lab Sample ID: LCS 880-91231/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 91241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-91231/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 91241

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-48695-1 MS — **Client Sample ID: SW-6-2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 91241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0		248	269.4		mg/Kg		101	90 - 110

Lab Sample ID: 880-48695-1 MSD — **Client Sample ID: SW-6-2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 91241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0		248	269.8		mg/Kg		101	90 - 110	0	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-91243/1-A
Matrix: Solid
Analysis Batch: 91245

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			09/20/24 08:39	1

Lab Sample ID: LCS 880-91243/2-A
Matrix: Solid
Analysis Batch: 91245

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.3		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-91243/3-A
Matrix: Solid
Analysis Batch: 91245

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	250.1		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-48695-9 MS
Matrix: Solid
Analysis Batch: 91245

Client Sample ID: B-12-2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	163		251	415.3		mg/Kg		101	90 - 110		

Lab Sample ID: 880-48695-9 MSD
Matrix: Solid
Analysis Batch: 91245

Client Sample ID: B-12-2.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	163		251	415.8		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

GC VOA

Prep Batch: 91078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-91078/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 91173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-1	SW-6-2'	Total/NA	Solid	8021B	91221
880-48695-2	SW-2-2'	Total/NA	Solid	8021B	91221
880-48695-3	SW-1-2'	Total/NA	Solid	8021B	91221
880-48695-4	B-1-2.5'	Total/NA	Solid	8021B	91221
880-48695-5	B-3-2.5'	Total/NA	Solid	8021B	91221
880-48695-6	B-4-2.5'	Total/NA	Solid	8021B	91221
880-48695-7	B-5-2.5'	Total/NA	Solid	8021B	91221
880-48695-8	B-11-2.5'	Total/NA	Solid	8021B	91221
880-48695-9	B-12-2.5'	Total/NA	Solid	8021B	91221
MB 880-91078/5-A	Method Blank	Total/NA	Solid	8021B	91078
MB 880-91221/5-A	Method Blank	Total/NA	Solid	8021B	91221
LCS 880-91221/1-A	Lab Control Sample	Total/NA	Solid	8021B	91221
LCSD 880-91221/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91221
880-48695-1 MS	SW-6-2'	Total/NA	Solid	8021B	91221
880-48695-1 MSD	SW-6-2'	Total/NA	Solid	8021B	91221

Prep Batch: 91221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-1	SW-6-2'	Total/NA	Solid	5030B	
880-48695-2	SW-2-2'	Total/NA	Solid	5030B	
880-48695-3	SW-1-2'	Total/NA	Solid	5030B	
880-48695-4	B-1-2.5'	Total/NA	Solid	5030B	
880-48695-5	B-3-2.5'	Total/NA	Solid	5030B	
880-48695-6	B-4-2.5'	Total/NA	Solid	5030B	
880-48695-7	B-5-2.5'	Total/NA	Solid	5030B	
880-48695-8	B-11-2.5'	Total/NA	Solid	5030B	
880-48695-9	B-12-2.5'	Total/NA	Solid	5030B	
MB 880-91221/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91221/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91221/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-48695-1 MS	SW-6-2'	Total/NA	Solid	5030B	
880-48695-1 MSD	SW-6-2'	Total/NA	Solid	5030B	

Analysis Batch: 91322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-1	SW-6-2'	Total/NA	Solid	Total BTEX	
880-48695-2	SW-2-2'	Total/NA	Solid	Total BTEX	
880-48695-3	SW-1-2'	Total/NA	Solid	Total BTEX	
880-48695-4	B-1-2.5'	Total/NA	Solid	Total BTEX	
880-48695-5	B-3-2.5'	Total/NA	Solid	Total BTEX	
880-48695-6	B-4-2.5'	Total/NA	Solid	Total BTEX	
880-48695-7	B-5-2.5'	Total/NA	Solid	Total BTEX	
880-48695-8	B-11-2.5'	Total/NA	Solid	Total BTEX	
880-48695-9	B-12-2.5'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

GC Semi VOA

Prep Batch: 91260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-1	SW-6-2'	Total/NA	Solid	8015NM Prep	
880-48695-2	SW-2-2'	Total/NA	Solid	8015NM Prep	
880-48695-3	SW-1-2'	Total/NA	Solid	8015NM Prep	
880-48695-4	B-1-2.5'	Total/NA	Solid	8015NM Prep	
880-48695-5	B-3-2.5'	Total/NA	Solid	8015NM Prep	
880-48695-6	B-4-2.5'	Total/NA	Solid	8015NM Prep	
880-48695-7	B-5-2.5'	Total/NA	Solid	8015NM Prep	
880-48695-8	B-11-2.5'	Total/NA	Solid	8015NM Prep	
880-48695-9	B-12-2.5'	Total/NA	Solid	8015NM Prep	
MB 880-91260/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91260/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91260/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-48695-1 MS	SW-6-2'	Total/NA	Solid	8015NM Prep	
880-48695-1 MSD	SW-6-2'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 91396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-1	SW-6-2'	Total/NA	Solid	8015B NM	91260
880-48695-2	SW-2-2'	Total/NA	Solid	8015B NM	91260
880-48695-3	SW-1-2'	Total/NA	Solid	8015B NM	91260
880-48695-4	B-1-2.5'	Total/NA	Solid	8015B NM	91260
880-48695-5	B-3-2.5'	Total/NA	Solid	8015B NM	91260
880-48695-6	B-4-2.5'	Total/NA	Solid	8015B NM	91260
880-48695-7	B-5-2.5'	Total/NA	Solid	8015B NM	91260
880-48695-8	B-11-2.5'	Total/NA	Solid	8015B NM	91260
880-48695-9	B-12-2.5'	Total/NA	Solid	8015B NM	91260
MB 880-91260/1-A	Method Blank	Total/NA	Solid	8015B NM	91260
LCS 880-91260/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91260
LCSD 880-91260/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91260
880-48695-1 MS	SW-6-2'	Total/NA	Solid	8015B NM	91260
880-48695-1 MSD	SW-6-2'	Total/NA	Solid	8015B NM	91260

Analysis Batch: 91447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-1	SW-6-2'	Total/NA	Solid	8015 NM	
880-48695-2	SW-2-2'	Total/NA	Solid	8015 NM	
880-48695-3	SW-1-2'	Total/NA	Solid	8015 NM	
880-48695-4	B-1-2.5'	Total/NA	Solid	8015 NM	
880-48695-5	B-3-2.5'	Total/NA	Solid	8015 NM	
880-48695-6	B-4-2.5'	Total/NA	Solid	8015 NM	
880-48695-7	B-5-2.5'	Total/NA	Solid	8015 NM	
880-48695-8	B-11-2.5'	Total/NA	Solid	8015 NM	
880-48695-9	B-12-2.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 91231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-1	SW-6-2'	Soluble	Solid	DI Leach	
880-48695-2	SW-2-2'	Soluble	Solid	DI Leach	
880-48695-3	SW-1-2'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 91231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-4	B-1-2.5'	Soluble	Solid	DI Leach	
880-48695-5	B-3-2.5'	Soluble	Solid	DI Leach	
880-48695-6	B-4-2.5'	Soluble	Solid	DI Leach	
880-48695-7	B-5-2.5'	Soluble	Solid	DI Leach	
880-48695-8	B-11-2.5'	Soluble	Solid	DI Leach	
MB 880-91231/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91231/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91231/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48695-1 MS	SW-6-2'	Soluble	Solid	DI Leach	
880-48695-1 MSD	SW-6-2'	Soluble	Solid	DI Leach	

Analysis Batch: 91241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-1	SW-6-2'	Soluble	Solid	300.0	91231
880-48695-2	SW-2-2'	Soluble	Solid	300.0	91231
880-48695-3	SW-1-2'	Soluble	Solid	300.0	91231
880-48695-4	B-1-2.5'	Soluble	Solid	300.0	91231
880-48695-5	B-3-2.5'	Soluble	Solid	300.0	91231
880-48695-6	B-4-2.5'	Soluble	Solid	300.0	91231
880-48695-7	B-5-2.5'	Soluble	Solid	300.0	91231
880-48695-8	B-11-2.5'	Soluble	Solid	300.0	91231
MB 880-91231/1-A	Method Blank	Soluble	Solid	300.0	91231
LCS 880-91231/2-A	Lab Control Sample	Soluble	Solid	300.0	91231
LCSD 880-91231/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91231
880-48695-1 MS	SW-6-2'	Soluble	Solid	300.0	91231
880-48695-1 MSD	SW-6-2'	Soluble	Solid	300.0	91231

Leach Batch: 91243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-9	B-12-2.5'	Soluble	Solid	DI Leach	
MB 880-91243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48695-9 MS	B-12-2.5'	Soluble	Solid	DI Leach	
880-48695-9 MSD	B-12-2.5'	Soluble	Solid	DI Leach	

Analysis Batch: 91245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48695-9	B-12-2.5'	Soluble	Solid	300.0	91243
MB 880-91243/1-A	Method Blank	Soluble	Solid	300.0	91243
LCS 880-91243/2-A	Lab Control Sample	Soluble	Solid	300.0	91243
LCSD 880-91243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91243
880-48695-9 MS	B-12-2.5'	Soluble	Solid	300.0	91243
880-48695-9 MSD	B-12-2.5'	Soluble	Solid	300.0	91243

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: SW-6-2'
Date Collected: 09/16/24 12:00
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	91221	09/19/24 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91322	09/20/24 01:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			91447	09/21/24 15:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	91260	09/19/24 18:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91396	09/21/24 15:30	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	91231	09/19/24 13:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91241	09/20/24 01:40	CH	EET MID

Client Sample ID: SW-2-2'
Date Collected: 09/17/24 10:30
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-2
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			4.99 g	5 mL	91221	09/19/24 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 01:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91322	09/20/24 01:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			91447	09/21/24 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	91260	09/19/24 18:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91396	09/21/24 16:19	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	91231	09/19/24 13:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91241	09/20/24 02:00	CH	EET MID

Client Sample ID: SW-1-2'
Date Collected: 09/17/24 10:45
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-3
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	91221	09/19/24 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 01:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91322	09/20/24 01:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			91447	09/21/24 16:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	91260	09/19/24 18:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91396	09/21/24 16:36	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91231	09/19/24 13:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91241	09/20/24 02:07	CH	EET MID

Client Sample ID: B-1-2.5'
Date Collected: 09/17/24 15:00
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-4
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			5.02 g	5 mL	91221	09/19/24 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 02:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91322	09/20/24 02:10	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: B-1-2.5'
Date Collected: 09/17/24 15:00
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91447	09/21/24 16:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91260	09/19/24 18:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91396	09/21/24 16:52	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91231	09/19/24 13:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91241	09/20/24 02:14	CH	EET MID

Client Sample ID: B-3-2.5'
Date Collected: 09/17/24 15:10
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-5
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	91221	09/19/24 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91322	09/20/24 02:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			91447	09/21/24 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	91260	09/19/24 18:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91396	09/21/24 17:08	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	91231	09/19/24 13:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91241	09/20/24 02:20	CH	EET MID

Client Sample ID: B-4-2.5'
Date Collected: 09/17/24 15:20
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-6
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			5.01 g	5 mL	91221	09/19/24 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 02:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91322	09/20/24 02:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			91447	09/21/24 17:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91260	09/19/24 18:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91396	09/21/24 17:25	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	91231	09/19/24 13:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91241	09/20/24 02:40	CH	EET MID

Client Sample ID: B-5-2.5'
Date Collected: 09/17/24 15:30
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	91221	09/19/24 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91322	09/20/24 03:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			91447	09/21/24 17:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91260	09/19/24 18:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91396	09/21/24 17:41	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Client Sample ID: B-5-2.5'
Date Collected: 09/17/24 15:30
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-7
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			4.97 g	50 mL	91231	09/19/24 13:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91241	09/20/24 02:47	CH	EET MID

Client Sample ID: B-11-2.5'
Date Collected: 09/17/24 15:40
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-8
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			5.05 g	5 mL	91221	09/19/24 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 03:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91322	09/20/24 03:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			91447	09/21/24 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	91260	09/19/24 18:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91396	09/21/24 17:58	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91231	09/19/24 13:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91241	09/20/24 02:54	CH	EET MID

Client Sample ID: B-12-2.5'
Date Collected: 09/17/24 15:50
Date Received: 09/19/24 11:00

Lab Sample ID: 880-48695-9
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			5.01 g	5 mL	91221	09/19/24 12:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 03:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91322	09/20/24 03:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			91447	09/21/24 18:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91260	09/19/24 18:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91396	09/21/24 18:14	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	91243	09/19/24 15:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91245	09/20/24 08:59	CH	EET MID

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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.
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: WLU 41

Job ID: 880-48695-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-48695-1	SW-6-2'	Solid	09/16/24 12:00	09/19/24 11:00
880-48695-2	SW-2-2'	Solid	09/17/24 10:30	09/19/24 11:00
880-48695-3	SW-1-2'	Solid	09/17/24 10:45	09/19/24 11:00
880-48695-4	B-1-2.5'	Solid	09/17/24 15:00	09/19/24 11:00
880-48695-5	B-3-2.5'	Solid	09/17/24 15:10	09/19/24 11:00
880-48695-6	B-4-2.5'	Solid	09/17/24 15:20	09/19/24 11:00
880-48695-7	B-5-2.5'	Solid	09/17/24 15:30	09/19/24 11:00
880-48695-8	B-11-2.5'	Solid	09/17/24 15:40	09/19/24 11:00
880-48695-9	B-12-2.5'	Solid	09/17/24 15:50	09/19/24 11:00

Released to Imaging: 10/30/2024 9:04:02 AM
Received by OCD: 10/23/2024 1:19:31 PM

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Chain of Custody

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

Work Or

880-48695 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-614-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	WLU 41	Turn Around	
Project Number:	30237085 Task 00004	☐ Routine ☒ Rush 48	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Heath Boyd	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	DR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.4
Total Containers:		Corrected Temperature:	2.3

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cl 300	8015 MOD_NM	8021B	Sample Comments
SW-6-2'	S	9/16/24	1200		Comp	1		X	X	X	
SW-2-2'		9/17/24	1030			1		X	X	X	
SW-1-2'			1045			1		X	X	X	
B-1-2.5'			1500			1		X	X	X	
B-3-2.5'			1510			1		X	X	X	
B-4-2.5'			1520			1		X	X	X	
B-5-2.5'			1530			1		X	X	X	
B-11-2.5'			1540			1		X	X	X	
B-12-2.5'			1550			1		X	X	X	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl 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
1	Kayleigh Cox	9/17/24 1700	2 Kayleigh Cox		9/19/24 11:08
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-48695-1
SDG Number: Lea County, NM

Login Number: 48695
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis U.S., Inc.
98 San Jacinto Blvd.
Suite 414
Austin, Texas 78701

Generated 9/25/2024 12:00:07 AM

JOB DESCRIPTION

WLU 41
Lea County, NM

JOB NUMBER

880-48758-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 10/30/2024 9:04:02 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
9/25/2024 12:00:07 AM

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

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Laboratory Job ID: 880-48758-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: WLU 41

Job ID: 880-48758-1

Job ID: 880-48758-1 Eurofins Midland

Job Narrative
880-48758-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 9/20/2024 11:00 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 1.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-7-2' (880-48758-1), SW-8-2' (880-48758-2), SW-9-2' (880-48758-3), SW-10-2' (880-48758-4), SW-11-2' (880-48758-5), SW-12-2' (880-48758-6), SW-13-2' (880-48758-7), B-72-1' (880-48758-8), B-73-1' (880-48758-9) and SW-14-2' (880-48758-10).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-91356 and analytical batch 880-91418 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.

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-91400 and analytical batch 880-91404 contained 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-7-2'

Date Collected: 09/19/24 09:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/20/24 13:35	09/22/24 19:23	1
Toluene	<0.00201	U F1	0.00201	0.00201	mg/Kg		09/20/24 13:35	09/22/24 19:23	1
Ethylbenzene	<0.00109	U F1	0.00201	0.00109	mg/Kg		09/20/24 13:35	09/22/24 19:23	1
m-Xylene & p-Xylene	<0.00229	U F1	0.00402	0.00229	mg/Kg		09/20/24 13:35	09/22/24 19:23	1
o-Xylene	<0.00159	U F1	0.00201	0.00159	mg/Kg		09/20/24 13:35	09/22/24 19:23	1
Xylenes, Total	<0.00229	U F1	0.00402	0.00229	mg/Kg		09/20/24 13:35	09/22/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/20/24 13:35*	*09/22/24 19:23*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:35*	*09/22/24 19:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			09/22/24 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.3**	**J**	49.7	15.0	mg/Kg			09/21/24 19:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		09/21/24 14:55	09/21/24 19:56	1
Diesel Range Organics (Over C10-C28)	**17.3**	**J B**	49.7	15.0	mg/Kg		09/21/24 14:55	09/21/24 19:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/21/24 14:55	09/21/24 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*09/21/24 14:55*	*09/21/24 19:56*	*1*
o-Terphenyl	*93*		*70 - 130*	*09/21/24 14:55*	*09/21/24 19:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.8**		4.96	0.392	mg/Kg			09/20/24 17:28	1

Client Sample ID: SW-8-2'

Date Collected: 09/19/24 09:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		09/20/24 13:35	09/22/24 19:43	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		09/20/24 13:35	09/22/24 19:43	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		09/20/24 13:35	09/22/24 19:43	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:35	09/22/24 19:43	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		09/20/24 13:35	09/22/24 19:43	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:35	09/22/24 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/20/24 13:35*	*09/22/24 19:43*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/20/24 13:35*	*09/22/24 19:43*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-8-2'
Date Collected: 09/19/24 09:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			09/22/24 19:43	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	49.9	15.1	mg/Kg			09/21/24 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		09/21/24 14:55	09/21/24 20:11	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:55	09/21/24 20:11	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:55	09/21/24 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/21/24 14:55*	*09/21/24 20:11*	*1*
o-Terphenyl	*87*		*70 - 130*	*09/21/24 14:55*	*09/21/24 20:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**219**		5.04	0.398	mg/Kg			09/20/24 17:34	1

Client Sample ID: SW-9-2'
Date Collected: 09/19/24 10:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/22/24 20:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/22/24 20:04	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/22/24 20:04	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:35	09/22/24 20:04	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:35	09/22/24 20:04	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:35	09/22/24 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:35*	*09/22/24 20:04*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:35*	*09/22/24 20:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/22/24 20:04	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	49.8	15.1	mg/Kg			09/21/24 20:25	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	<14.5	U	49.8	14.5	mg/Kg		09/21/24 14:55	09/21/24 20:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 14:55	09/21/24 20:25	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-9-2'
Date Collected: 09/19/24 10:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 14:55	09/21/24 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*09/21/24 14:55*	*09/21/24 20:25*	*1*
o-Terphenyl	*90*		*70 - 130*	*09/21/24 14:55*	*09/21/24 20:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**268**		4.98	0.393	mg/Kg			09/20/24 17:41	1

Client Sample ID: SW-10-2'
Date Collected: 09/19/24 09:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/22/24 20:24	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/22/24 20:24	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/22/24 20:24	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:35	09/22/24 20:24	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:35	09/22/24 20:24	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:35	09/22/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*09/20/24 13:35*	*09/22/24 20:24*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/20/24 13:35*	*09/22/24 20:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/22/24 20:24	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	49.8	15.1	mg/Kg			09/21/24 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		09/21/24 14:55	09/21/24 20:40	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 14:55	09/21/24 20:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 14:55	09/21/24 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/21/24 14:55*	*09/21/24 20:40*	*1*
o-Terphenyl	*87*		*70 - 130*	*09/21/24 14:55*	*09/21/24 20:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.2**		4.96	0.392	mg/Kg			09/20/24 17:48	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-11-2'

Date Collected: 09/19/24 09:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/20/24 13:35	09/22/24 20:45	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:35	09/22/24 20:45	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:35	09/22/24 20:45	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:35	09/22/24 20:45	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/20/24 13:35	09/22/24 20:45	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:35	09/22/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:35*	*09/22/24 20:45*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:35*	*09/22/24 20:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/22/24 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			09/21/24 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		09/21/24 14:55	09/21/24 20:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:55	09/21/24 20:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:55	09/21/24 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*09/21/24 14:55*	*09/21/24 20:54*	*1*
o-Terphenyl	*80*		*70 - 130*	*09/21/24 14:55*	*09/21/24 20:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**289**		5.04	0.398	mg/Kg			09/20/24 17:54	1

Client Sample ID: SW-12-2'

Date Collected: 09/19/24 09:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/20/24 13:35	09/22/24 21:05	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:35	09/22/24 21:05	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:35	09/22/24 21:05	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:35	09/22/24 21:05	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/20/24 13:35	09/22/24 21:05	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:35	09/22/24 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/20/24 13:35*	*09/22/24 21:05*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:35*	*09/22/24 21:05*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-12-2'
Date Collected: 09/19/24 09:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/22/24 21:05	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	50.0	15.1	mg/Kg			09/21/24 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/21/24 14:55	09/21/24 21:24	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 14:55	09/21/24 21:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 14:55	09/21/24 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*09/21/24 14:55*	*09/21/24 21:24*	*1*
o-Terphenyl	*75*		*70 - 130*	*09/21/24 14:55*	*09/21/24 21:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**271**		5.02	0.397	mg/Kg			09/20/24 18:14	1

Client Sample ID: SW-13-2'
Date Collected: 09/19/24 10:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/22/24 21:25	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/22/24 21:25	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/22/24 21:25	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:35	09/22/24 21:25	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:35	09/22/24 21:25	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:35	09/22/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:35*	*09/22/24 21:25*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:35*	*09/22/24 21:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/22/24 21:25	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	50.2	15.2	mg/Kg			09/21/24 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.2	14.6	mg/Kg		09/21/24 14:55	09/21/24 21:38	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 14:55	09/21/24 21:38	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-13-2'

Date Collected: 09/19/24 10:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 14:55	09/21/24 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*09/21/24 14:55*	*09/21/24 21:38*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/21/24 14:55*	*09/21/24 21:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**253**		5.05	0.399	mg/Kg			09/20/24 18:21	1

Client Sample ID: B-72-1'

Date Collected: 09/19/24 10:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/22/24 21:46	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/22/24 21:46	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/22/24 21:46	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:35	09/22/24 21:46	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:35	09/22/24 21:46	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:35	09/22/24 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:35*	*09/22/24 21:46*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:35*	*09/22/24 21:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/22/24 21:46	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	50.3	15.2	mg/Kg			09/21/24 21:53	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	<14.6	U	50.3	14.6	mg/Kg		09/21/24 14:55	09/21/24 21:53	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 14:55	09/21/24 21:53	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 14:55	09/21/24 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*09/21/24 14:55*	*09/21/24 21:53*	*1*
o-Terphenyl	*92*		*70 - 130*	*09/21/24 14:55*	*09/21/24 21:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		4.97	0.393	mg/Kg			09/20/24 18:41	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: B-73-1'

Date Collected: 09/19/24 10:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/20/24 13:35	09/22/24 22:06	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		09/20/24 13:35	09/22/24 22:06	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/20/24 13:35	09/22/24 22:06	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/20/24 13:35	09/22/24 22:06	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/20/24 13:35	09/22/24 22:06	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/20/24 13:35	09/22/24 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/20/24 13:35*	*09/22/24 22:06*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:35*	*09/22/24 22:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			09/22/24 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.4	15.3	mg/Kg			09/21/24 22:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.4	14.6	mg/Kg		09/21/24 14:55	09/21/24 22:07	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 14:55	09/21/24 22:07	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 14:55	09/21/24 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*09/21/24 14:55*	*09/21/24 22:07*	*1*
o-Terphenyl	*101*		*70 - 130*	*09/21/24 14:55*	*09/21/24 22:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		5.00	0.395	mg/Kg			09/20/24 18:48	1

Client Sample ID: SW-14-2'

Date Collected: 09/19/24 14:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/22/24 22:27	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/22/24 22:27	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/22/24 22:27	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:35	09/22/24 22:27	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:35	09/22/24 22:27	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:35	09/22/24 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/20/24 13:35*	*09/22/24 22:27*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:35*	*09/22/24 22:27*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-14-2'

Date Collected: 09/19/24 14:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-10

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/22/24 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			09/21/24 22:22	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	<14.5	U	49.9	14.5	mg/Kg		09/21/24 14:55	09/21/24 22:22	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:55	09/21/24 22:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:55	09/21/24 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*09/21/24 14:55*	*09/21/24 22:22*	*1*
o-Terphenyl	*90*		*70 - 130*	*09/21/24 14:55*	*09/21/24 22:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**128**		4.99	0.394	mg/Kg			09/20/24 18:55	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-48758-1	SW-7-2'	104	102
880-48758-1 MS	SW-7-2'	104	96
880-48758-1 MSD	SW-7-2'	100	101
880-48758-2	SW-8-2'	107	98
880-48758-3	SW-9-2'	105	102
880-48758-4	SW-10-2'	96	95
880-48758-5	SW-11-2'	108	100
880-48758-6	SW-12-2'	103	102
880-48758-7	SW-13-2'	102	101
880-48758-8	B-72-1'	108	102
880-48758-9	B-73-1'	110	100
880-48758-10	SW-14-2'	111	101
LCS 880-91356/1-A	Lab Control Sample	100	100
LCSD 880-91356/2-A	Lab Control Sample Dup	103	98
MB 880-91356/5-A	Method Blank	108	100

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)
880-48758-1	SW-7-2'	92	93
880-48758-2	SW-8-2'	85	87
880-48758-3	SW-9-2'	88	90
880-48758-4	SW-10-2'	85	87
880-48758-5	SW-11-2'	79	80
880-48758-6	SW-12-2'	76	75
880-48758-7	SW-13-2'	88	88
880-48758-8	B-72-1'	91	92
880-48758-9	B-73-1'	102	101
880-48758-10	SW-14-2'	92	90
LCS 880-91400/2-A	Lab Control Sample	101	96
LCSD 880-91400/3-A	Lab Control Sample Dup	103	97
MB 880-91400/1-A	Method Blank	74	74

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-91356/5-A
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 13:35	09/22/24 19:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:35*	*09/22/24 19:01*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:35*	*09/22/24 19:01*	*1*

Lab Sample ID: LCS 880-91356/1-A
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09879		mg/Kg		99	70 - 130
Toluene	0.100	0.09494		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09446		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1977		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09885		mg/Kg		99	70 - 130

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

Lab Sample ID: LCSD 880-91356/2-A
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91356

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09807		mg/Kg		98	70 - 130	1	35
Toluene	0.100	0.09454		mg/Kg		95	70 - 130	0	35
Ethylbenzene	0.100	0.09418		mg/Kg		94	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1970		mg/Kg		98	70 - 130	0	35
o-Xylene	0.100	0.09844		mg/Kg		98	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-48758-1 MS
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: SW-7-2'
Prep Type: Total/NA
Prep Batch: 91356

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00140	U	0.0996	0.07999		mg/Kg		80	70 - 130
Toluene	<0.00201	U F1	0.0996	0.07180		mg/Kg		72	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

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

Lab Sample ID: 880-48758-1 MS
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: SW-7-2'
Prep Type: Total/NA
Prep Batch: 91356

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00109	U F1	0.0996	0.06474	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	<0.00229	U F1	0.199	0.1357	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00159	U F1	0.0996	0.06879	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-48758-1 MSD
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: SW-7-2'
Prep Type: Total/NA
Prep Batch: 91356

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00140	U	0.100	0.07562		mg/Kg		75	70 - 130	6	35
Toluene	<0.00201	U F1	0.100	0.06138	F1	mg/Kg		61	70 - 130	16	35
Ethylbenzene	<0.00109	U F1	0.100	0.04853	F1	mg/Kg		48	70 - 130	29	35
m-Xylene & p-Xylene	<0.00229	U F1	0.201	0.1000	F1	mg/Kg		50	70 - 130	30	35
o-Xylene	<0.00159	U F1	0.100	0.05249	F1	mg/Kg		52	70 - 130	27	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-91400/1-A
Matrix: Solid
Analysis Batch: 91404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/21/24 13:00	09/21/24 14:23	1
Diesel Range Organics (Over C10-C28)	15.26	J	50.0	15.1	mg/Kg		09/21/24 13:00	09/21/24 14:23	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 13:00	09/21/24 14:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*09/21/24 13:00*	*09/21/24 14:23*	*1*
o-Terphenyl	*74*		*70 - 130*	*09/21/24 13:00*	*09/21/24 14:23*	*1*

Lab Sample ID: LCS 880-91400/2-A
Matrix: Solid
Analysis Batch: 91404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	809.5		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	732.1		mg/Kg		73	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-91400/2-A
Matrix: Solid
Analysis Batch: 91404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91400

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-91400/3-A
Matrix: Solid
Analysis Batch: 91404

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91400

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	830.5		mg/Kg		83	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	698.9		mg/Kg		70	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-91353/1-A
Matrix: Solid
Analysis Batch: 91359

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			09/20/24 16:00	1

Lab Sample ID: LCS 880-91353/2-A
Matrix: Solid
Analysis Batch: 91359

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.2		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-91353/3-A
Matrix: Solid
Analysis Batch: 91359

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	248.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-48758-5 MS
Matrix: Solid
Analysis Batch: 91359

Client Sample ID: SW-11-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	289		252	536.2		mg/Kg		98	90 - 110		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-48758-5 MSD
Matrix: Solid
Analysis Batch: 91359

Client Sample ID: SW-11-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	289		252	537.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

GC VOA

Prep Batch: 91356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48758-1	SW-7-2'	Total/NA	Solid	5030B	
880-48758-2	SW-8-2'	Total/NA	Solid	5030B	
880-48758-3	SW-9-2'	Total/NA	Solid	5030B	
880-48758-4	SW-10-2'	Total/NA	Solid	5030B	
880-48758-5	SW-11-2'	Total/NA	Solid	5030B	
880-48758-6	SW-12-2'	Total/NA	Solid	5030B	
880-48758-7	SW-13-2'	Total/NA	Solid	5030B	
880-48758-8	B-72-1'	Total/NA	Solid	5030B	
880-48758-9	B-73-1'	Total/NA	Solid	5030B	
880-48758-10	SW-14-2'	Total/NA	Solid	5030B	
MB 880-91356/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91356/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91356/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-48758-1 MS	SW-7-2'	Total/NA	Solid	5030B	
880-48758-1 MSD	SW-7-2'	Total/NA	Solid	5030B	

Analysis Batch: 91418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48758-1	SW-7-2'	Total/NA	Solid	8021B	91356
880-48758-2	SW-8-2'	Total/NA	Solid	8021B	91356
880-48758-3	SW-9-2'	Total/NA	Solid	8021B	91356
880-48758-4	SW-10-2'	Total/NA	Solid	8021B	91356
880-48758-5	SW-11-2'	Total/NA	Solid	8021B	91356
880-48758-6	SW-12-2'	Total/NA	Solid	8021B	91356
880-48758-7	SW-13-2'	Total/NA	Solid	8021B	91356
880-48758-8	B-72-1'	Total/NA	Solid	8021B	91356
880-48758-9	B-73-1'	Total/NA	Solid	8021B	91356
880-48758-10	SW-14-2'	Total/NA	Solid	8021B	91356
MB 880-91356/5-A	Method Blank	Total/NA	Solid	8021B	91356
LCS 880-91356/1-A	Lab Control Sample	Total/NA	Solid	8021B	91356
LCSD 880-91356/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91356
880-48758-1 MS	SW-7-2'	Total/NA	Solid	8021B	91356
880-48758-1 MSD	SW-7-2'	Total/NA	Solid	8021B	91356

Analysis Batch: 91506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48758-1	SW-7-2'	Total/NA	Solid	Total BTEX	
880-48758-2	SW-8-2'	Total/NA	Solid	Total BTEX	
880-48758-3	SW-9-2'	Total/NA	Solid	Total BTEX	
880-48758-4	SW-10-2'	Total/NA	Solid	Total BTEX	
880-48758-5	SW-11-2'	Total/NA	Solid	Total BTEX	
880-48758-6	SW-12-2'	Total/NA	Solid	Total BTEX	
880-48758-7	SW-13-2'	Total/NA	Solid	Total BTEX	
880-48758-8	B-72-1'	Total/NA	Solid	Total BTEX	
880-48758-9	B-73-1'	Total/NA	Solid	Total BTEX	
880-48758-10	SW-14-2'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

GC Semi VOA

Prep Batch: 91400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48758-1	SW-7-2'	Total/NA	Solid	8015NM Prep	
880-48758-2	SW-8-2'	Total/NA	Solid	8015NM Prep	
880-48758-3	SW-9-2'	Total/NA	Solid	8015NM Prep	
880-48758-4	SW-10-2'	Total/NA	Solid	8015NM Prep	
880-48758-5	SW-11-2'	Total/NA	Solid	8015NM Prep	
880-48758-6	SW-12-2'	Total/NA	Solid	8015NM Prep	
880-48758-7	SW-13-2'	Total/NA	Solid	8015NM Prep	
880-48758-8	B-72-1'	Total/NA	Solid	8015NM Prep	
880-48758-9	B-73-1'	Total/NA	Solid	8015NM Prep	
880-48758-10	SW-14-2'	Total/NA	Solid	8015NM Prep	
MB 880-91400/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91400/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 91404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48758-1	SW-7-2'	Total/NA	Solid	8015B NM	91400
880-48758-2	SW-8-2'	Total/NA	Solid	8015B NM	91400
880-48758-3	SW-9-2'	Total/NA	Solid	8015B NM	91400
880-48758-4	SW-10-2'	Total/NA	Solid	8015B NM	91400
880-48758-5	SW-11-2'	Total/NA	Solid	8015B NM	91400
880-48758-6	SW-12-2'	Total/NA	Solid	8015B NM	91400
880-48758-7	SW-13-2'	Total/NA	Solid	8015B NM	91400
880-48758-8	B-72-1'	Total/NA	Solid	8015B NM	91400
880-48758-9	B-73-1'	Total/NA	Solid	8015B NM	91400
880-48758-10	SW-14-2'	Total/NA	Solid	8015B NM	91400
MB 880-91400/1-A	Method Blank	Total/NA	Solid	8015B NM	91400
LCS 880-91400/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91400
LCSD 880-91400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91400

Analysis Batch: 91456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48758-1	SW-7-2'	Total/NA	Solid	8015 NM	
880-48758-2	SW-8-2'	Total/NA	Solid	8015 NM	
880-48758-3	SW-9-2'	Total/NA	Solid	8015 NM	
880-48758-4	SW-10-2'	Total/NA	Solid	8015 NM	
880-48758-5	SW-11-2'	Total/NA	Solid	8015 NM	
880-48758-6	SW-12-2'	Total/NA	Solid	8015 NM	
880-48758-7	SW-13-2'	Total/NA	Solid	8015 NM	
880-48758-8	B-72-1'	Total/NA	Solid	8015 NM	
880-48758-9	B-73-1'	Total/NA	Solid	8015 NM	
880-48758-10	SW-14-2'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 91353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48758-1	SW-7-2'	Soluble	Solid	DI Leach	
880-48758-2	SW-8-2'	Soluble	Solid	DI Leach	
880-48758-3	SW-9-2'	Soluble	Solid	DI Leach	
880-48758-4	SW-10-2'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 91353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48758-5	SW-11-2'	Soluble	Solid	DI Leach	
880-48758-6	SW-12-2'	Soluble	Solid	DI Leach	
880-48758-7	SW-13-2'	Soluble	Solid	DI Leach	
880-48758-8	B-72-1'	Soluble	Solid	DI Leach	
880-48758-9	B-73-1'	Soluble	Solid	DI Leach	
880-48758-10	SW-14-2'	Soluble	Solid	DI Leach	
MB 880-91353/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91353/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91353/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48758-5 MS	SW-11-2'	Soluble	Solid	DI Leach	
880-48758-5 MSD	SW-11-2'	Soluble	Solid	DI Leach	

Analysis Batch: 91359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48758-1	SW-7-2'	Soluble	Solid	300.0	91353
880-48758-2	SW-8-2'	Soluble	Solid	300.0	91353
880-48758-3	SW-9-2'	Soluble	Solid	300.0	91353
880-48758-4	SW-10-2'	Soluble	Solid	300.0	91353
880-48758-5	SW-11-2'	Soluble	Solid	300.0	91353
880-48758-6	SW-12-2'	Soluble	Solid	300.0	91353
880-48758-7	SW-13-2'	Soluble	Solid	300.0	91353
880-48758-8	B-72-1'	Soluble	Solid	300.0	91353
880-48758-9	B-73-1'	Soluble	Solid	300.0	91353
880-48758-10	SW-14-2'	Soluble	Solid	300.0	91353
MB 880-91353/1-A	Method Blank	Soluble	Solid	300.0	91353
LCS 880-91353/2-A	Lab Control Sample	Soluble	Solid	300.0	91353
LCSD 880-91353/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91353
880-48758-5 MS	SW-11-2'	Soluble	Solid	300.0	91353
880-48758-5 MSD	SW-11-2'	Soluble	Solid	300.0	91353

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-7-2'
Date Collected: 09/19/24 09:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 19:23	MNR	EET MID
Total/NA	Analysis	8015 NM		1			91456	09/21/24 19:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 19:56	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 17:28	CH	EET MID

Client Sample ID: SW-8-2'
Date Collected: 09/19/24 09:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-2
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 19:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 19:43	MNR	EET MID
Total/NA	Analysis	8015 NM		1			91456	09/21/24 20:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 20:11	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 17:34	CH	EET MID

Client Sample ID: SW-9-2'
Date Collected: 09/19/24 10:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 20:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 20:04	MNR	EET MID
Total/NA	Analysis	8015 NM		1			91456	09/21/24 20:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 20:25	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 17:41	CH	EET MID

Client Sample ID: SW-10-2'
Date Collected: 09/19/24 09:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-4
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 20:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 20:24	MNR	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-10-2'
Date Collected: 09/19/24 09:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91456	09/21/24 20:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 20:40	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 17:48	CH	EET MID

Client Sample ID: SW-11-2'
Date Collected: 09/19/24 09:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-5
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			5.02 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 20:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 20:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			91456	09/21/24 20:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 20:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 17:54	CH	EET MID

Client Sample ID: SW-12-2'
Date Collected: 09/19/24 09:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-6
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			5.03 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 21:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 21:05	MNR	EET MID
Total/NA	Analysis	8015 NM		1			91456	09/21/24 21:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 21:24	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 18:14	CH	EET MID

Client Sample ID: SW-13-2'
Date Collected: 09/19/24 10:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 21:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 21:25	MNR	EET MID
Total/NA	Analysis	8015 NM		1			91456	09/21/24 21:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 21:38	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Client Sample ID: SW-13-2'
Date Collected: 09/19/24 10:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-7
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			4.95 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 18:21	CH	EET MID

Client Sample ID: B-72-1'
Date Collected: 09/19/24 10:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-8
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			4.99 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 21:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 21:46	MNR	EET MID
Total/NA	Analysis	8015 NM		1			91456	09/21/24 21:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 21:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 18:41	CH	EET MID

Client Sample ID: B-73-1'
Date Collected: 09/19/24 10:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-9
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 22:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 22:06	MNR	EET MID
Total/NA	Analysis	8015 NM		1			91456	09/21/24 22:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 22:07	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 18:48	CH	EET MID

Client Sample ID: SW-14-2'
Date Collected: 09/19/24 14:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48758-10
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			4.99 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 22:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91506	09/22/24 22:27	MNR	EET MID
Total/NA	Analysis	8015 NM		1			91456	09/21/24 22:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91400	09/21/24 14:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91404	09/21/24 22:22	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 18:55	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

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: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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.
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: WLU 41

Job ID: 880-48758-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-48758-1	SW-7-2'	Solid	09/19/24 09:00	09/20/24 11:00
880-48758-2	SW-8-2'	Solid	09/19/24 09:10	09/20/24 11:00
880-48758-3	SW-9-2'	Solid	09/19/24 10:30	09/20/24 11:00
880-48758-4	SW-10-2'	Solid	09/19/24 09:20	09/20/24 11:00
880-48758-5	SW-11-2'	Solid	09/19/24 09:40	09/20/24 11:00
880-48758-6	SW-12-2'	Solid	09/19/24 09:50	09/20/24 11:00
880-48758-7	SW-13-2'	Solid	09/19/24 10:00	09/20/24 11:00
880-48758-8	B-72-1'	Solid	09/19/24 10:10	09/20/24 11:00
880-48758-9	B-73-1'	Solid	09/19/24 10:20	09/20/24 11:00
880-48758-10	SW-14-2'	Solid	09/19/24 14:40	09/20/24 11:00

Released to Imaging: 10/30/2024 9:04:02 AM
Received by OCD: 10/23/2024 1:19:31 PM

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Chain of Custody

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

Work

880-48758 Chain of Custody

Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Ascadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	WCU 41	Turn Around	☐ Routine ☒ Rush 48
Project Number:	30237085 Task 00004	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Heath Boyd		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.9
Total Containers:		Corrected Temperature:	1.8

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Cl 300	8015 Mod-Nm	8021B	Sample Comments
SW-7-2'	S	9/19/24	900		C	1	X	X	X	
SW-8-2'			910			1	X	X	X	
SW-9-2'			1030			1	X	X	X	
SW-10-2'			920			1	X	X	X	
SW-11-2'			940			1	X	X	X	
SW-12-2'			950			1	X	X	X	
SW-13-2'			1000			1	X	X	X	
B-72-1'			1010			1	X	X	X	
B-73-1'			1020			1	X	X	X	
SW-14-2'	V	X	1440		C	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl 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
1		9/19/24 1525	2		9/20/24 1100
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-48758-1
SDG Number: Lea County, NM

Login Number: 48758
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis U.S., Inc.
98 San Jacinto Blvd.
Suite 414
Austin, Texas 78701

Generated 9/25/2024 12:26:18 AM

JOB DESCRIPTION

WLU 41
Lea County, NM

JOB NUMBER

880-48759-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 10/30/2024 9:04:02 AM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
9/25/2024 12:26:18 AM

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

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Laboratory Job ID: 880-48759-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea 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, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
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: WLU 41

Job ID: 880-48759-1

Job ID: 880-48759-1 Eurofins Midland

Job Narrative
880-48759-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 9/20/2024 11:00 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 1.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-13-4' (880-48759-1), B-14-4' (880-48759-2), B-15-4' (880-48759-3), B-16-4' (880-48759-4), B-17-4' (880-48759-5), B-18-4' (880-48759-6), B-19-4' (880-48759-7), B-20-4' (880-48759-8), B-21-4' (880-48759-9), B-22-4' (880-48759-10), B-23-4' (880-48759-11), B-7-4' (880-48759-12), B-24-4' (880-48759-13), B-25-4' (880-48759-14), B-26-4' (880-48759-15), B-27-4' (880-48759-16), B-28-4' (880-48759-17), B-29-4' (880-48759-18), B-30-4' (880-48759-19), B-31-4' (880-48759-20), B-32-4' (880-48759-21), B-33-4' (880-48759-22), B-34-4' (880-48759-23), B-35-4' (880-48759-24), B-36-4' (880-48759-25), B-37-4' (880-48759-26), B-38-4' (880-48759-27), B-39-4' (880-48759-28), B-40-4' (880-48759-29), B-41-4' (880-48759-30), B-42-4' (880-48759-31), B-43-4' (880-48759-32), B-44-4' (880-48759-33), B-45-4' (880-48759-34), B-46-4' (880-48759-35), B-47-4' (880-48759-36), B-48-4' (880-48759-37), B-49-4' (880-48759-38), B-50-4' (880-48759-39), B-51-4' (880-48759-40), B-52-4' (880-48759-41), B-53-4' (880-48759-42), B-54-4' (880-48759-43), B-55-4' (880-48759-44), B-56-4' (880-48759-45), B-57-4' (880-48759-46), B-58-4' (880-48759-47), B-59-4' (880-48759-48), B-60-4' (880-48759-49), B-61-4' (880-48759-50) and B-62-4' (880-48759-51).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91227 and analytical batch 880-91420 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91311 and analytical batch 880-91420 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-91358 and analytical batch 880-91392 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: <The continuing calibration verification (CCV) associated with batch 880-91392 recovered under the lower control limit for Ethylbenzene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (CCV 880-91406/6) and (880-48766-A-1-B). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-91403/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-59-4' (880-48759-48), B-60-4' (880-48759-49) and (CCV 880-91406/32). Evidence of matrix interferences is not obvious.

Eurofins Midland

Case Narrative

Client: Arcadis U.S., Inc.
Project: WLU 41

Job ID: 880-48759-1

Job ID: 880-48759-1 (Continued) Eurofins Midland

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-91402 and analytical batch 880-91468 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-42-4' (880-48759-31) and (CCV 880-91468/6). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-91402/2-A) and (LCSD 880-91402/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-91402 and analytical batch 880-91468 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 continuing calibration verification (CCV) associated with batch 880-91468 exhibited % difference of > 20% for the following analyte(s)Diesel Range Organics (Over C10-C28). These results are within the acceptance limits but exceed the performance criteria.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-20-4' (880-48759-8). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-91465 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10 and 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 880-91465/21).

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 880-91355 and analytical batch 880-91363 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-91354 and analytical batch 880-91360 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-13-4'
Date Collected: 09/18/24 09:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/20/24 13:45	09/21/24 15:54	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		09/20/24 13:45	09/21/24 15:54	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		09/20/24 13:45	09/21/24 15:54	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		09/20/24 13:45	09/21/24 15:54	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/20/24 13:45	09/21/24 15:54	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		09/20/24 13:45	09/21/24 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/20/24 13:45*	*09/21/24 15:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:45*	*09/21/24 15:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			09/21/24 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.5	15.3	mg/Kg			09/23/24 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.7	U	50.5	14.7	mg/Kg		09/21/24 14:58	09/23/24 14:00	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 14:58	09/23/24 14:00	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 14:58	09/23/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/21/24 14:58*	*09/23/24 14:00*	*1*
o-Terphenyl	*83*		*70 - 130*	*09/21/24 14:58*	*09/23/24 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		4.96	0.392	mg/Kg			09/20/24 19:01	1

Client Sample ID: B-14-4'
Date Collected: 09/18/24 09:05
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		09/20/24 13:45	09/21/24 16:15	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		09/20/24 13:45	09/21/24 16:15	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		09/20/24 13:45	09/21/24 16:15	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:45	09/21/24 16:15	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		09/20/24 13:45	09/21/24 16:15	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:45	09/21/24 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/20/24 13:45*	*09/21/24 16:15*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:45*	*09/21/24 16:15*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-14-4'
Date Collected: 09/18/24 09:05
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			09/21/24 16:15	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	49.8	15.1	mg/Kg			09/23/24 14:44	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	<14.5	U	49.8	14.5	mg/Kg		09/21/24 14:58	09/23/24 14:44	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 14:58	09/23/24 14:44	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 14:58	09/23/24 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*09/21/24 14:58*	*09/23/24 14:44*	*1*
o-Terphenyl	*78*		*70 - 130*	*09/21/24 14:58*	*09/23/24 14:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**506**		5.05	0.399	mg/Kg			09/20/24 19:08	1

Client Sample ID: B-15-4'
Date Collected: 09/18/24 09:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:45	09/21/24 16:35	1
Toluene	**0.00223**		0.00200	0.00200	mg/Kg		09/20/24 13:45	09/21/24 16:35	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:45	09/21/24 16:35	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:45	09/21/24 16:35	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:45	09/21/24 16:35	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:45	09/21/24 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/20/24 13:45*	*09/21/24 16:35*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:45*	*09/21/24 16:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/21/24 16:35	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	50.2	15.2	mg/Kg			09/23/24 14:59	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	<14.6	U	50.2	14.6	mg/Kg		09/21/24 14:58	09/23/24 14:59	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 14:58	09/23/24 14:59	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-15-4'
Date Collected: 09/18/24 09:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 14:58	09/23/24 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*09/21/24 14:58*	*09/23/24 14:59*	*1*
o-Terphenyl	*80*		*70 - 130*	*09/21/24 14:58*	*09/23/24 14:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		4.98	0.393	mg/Kg			09/20/24 19:15	1

Client Sample ID: B-16-4'
Date Collected: 09/18/24 09:15
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:45	09/21/24 16:56	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:45	09/21/24 16:56	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:45	09/21/24 16:56	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:45	09/21/24 16:56	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:45	09/21/24 16:56	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:45	09/21/24 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:45*	*09/21/24 16:56*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:45*	*09/21/24 16:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/21/24 16:56	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	50.1	15.2	mg/Kg			09/23/24 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.1	14.6	mg/Kg		09/21/24 14:58	09/23/24 15:13	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.1	15.2	mg/Kg		09/21/24 14:58	09/23/24 15:13	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		09/21/24 14:58	09/23/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*09/21/24 14:58*	*09/23/24 15:13*	*1*
o-Terphenyl	*75*		*70 - 130*	*09/21/24 14:58*	*09/23/24 15:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**680**		4.97	0.393	mg/Kg			09/20/24 19:21	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-17-4'

Date Collected: 09/18/24 09:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/20/24 13:45	09/21/24 17:16	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:45	09/21/24 17:16	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:45	09/21/24 17:16	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:45	09/21/24 17:16	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/20/24 13:45	09/21/24 17:16	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:45	09/21/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/20/24 13:45*	*09/21/24 17:16*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:45*	*09/21/24 17:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/21/24 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.4	15.3	mg/Kg			09/23/24 15:28	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	<14.6	U	50.4	14.6	mg/Kg		09/21/24 14:58	09/23/24 15:28	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 14:58	09/23/24 15:28	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 14:58	09/23/24 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*09/21/24 14:58*	*09/23/24 15:28*	*1*
o-Terphenyl	*77*		*70 - 130*	*09/21/24 14:58*	*09/23/24 15:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**849**	**F1**	4.98	0.393	mg/Kg			09/20/24 20:15	1

Client Sample ID: B-18-4'

Date Collected: 09/18/24 09:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/20/24 13:45	09/21/24 17:37	1
Toluene	**0.00313**		0.00199	0.00199	mg/Kg		09/20/24 13:45	09/21/24 17:37	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:45	09/21/24 17:37	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:45	09/21/24 17:37	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/20/24 13:45	09/21/24 17:37	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:45	09/21/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/20/24 13:45*	*09/21/24 17:37*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:45*	*09/21/24 17:37*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-18-4'
Date Collected: 09/18/24 09:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00313**	**J**	0.00398	0.00227	mg/Kg			09/21/24 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	<15.3	U	50.5	15.3	mg/Kg			09/23/24 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.7	U	50.5	14.7	mg/Kg		09/21/24 14:58	09/23/24 15:44	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 14:58	09/23/24 15:44	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 14:58	09/23/24 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/21/24 14:58*	*09/23/24 15:44*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/21/24 14:58*	*09/23/24 15:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1070**		24.8	1.96	mg/Kg			09/20/24 20:35	5

Client Sample ID: B-19-4'
Date Collected: 09/18/24 09:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:45	09/21/24 17:57	1
Toluene	**0.00338**		0.00200	0.00200	mg/Kg		09/20/24 13:45	09/21/24 17:57	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:45	09/21/24 17:57	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:45	09/21/24 17:57	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:45	09/21/24 17:57	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:45	09/21/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:45*	*09/21/24 17:57*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/20/24 13:45*	*09/21/24 17:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00338**	**J**	0.00399	0.00228	mg/Kg			09/21/24 17:57	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	49.7	15.0	mg/Kg			09/23/24 15:58	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	<14.4	U	49.7	14.4	mg/Kg		09/21/24 14:58	09/23/24 15:58	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		09/21/24 14:58	09/23/24 15:58	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-19-4'
Date Collected: 09/18/24 09:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/21/24 14:58	09/23/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*09/21/24 14:58*	*09/23/24 15:58*	*1*
o-Terphenyl	*82*		*70 - 130*	*09/21/24 14:58*	*09/23/24 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2650**		24.9	1.96	mg/Kg			09/20/24 20:42	5

Client Sample ID: B-20-4'
Date Collected: 09/18/24 09:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:45	09/21/24 18:18	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:45	09/21/24 18:18	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:45	09/21/24 18:18	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:45	09/21/24 18:18	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:45	09/21/24 18:18	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:45	09/21/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:45*	*09/21/24 18:18*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:45*	*09/21/24 18:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/21/24 18:18	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	49.8	15.1	mg/Kg			09/23/24 16:13	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	<14.5	U	49.8	14.5	mg/Kg		09/21/24 14:58	09/23/24 16:13	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 14:58	09/23/24 16:13	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 14:58	09/23/24 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*09/21/24 14:58*	*09/23/24 16:13*	*1*
o-Terphenyl	*127*		*70 - 130*	*09/21/24 14:58*	*09/23/24 16:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1040**		4.96	0.392	mg/Kg			09/20/24 20:48	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-21-4'
Date Collected: 09/18/24 09:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/20/24 13:45	09/21/24 18:38	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		09/20/24 13:45	09/21/24 18:38	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/20/24 13:45	09/21/24 18:38	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/20/24 13:45	09/21/24 18:38	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/20/24 13:45	09/21/24 18:38	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/20/24 13:45	09/21/24 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/20/24 13:45*	*09/21/24 18:38*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:45*	*09/21/24 18:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			09/21/24 18:38	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	50.0	15.1	mg/Kg			09/23/24 16:28	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	<14.5	U	50.0	14.5	mg/Kg		09/21/24 14:58	09/23/24 16:28	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 14:58	09/23/24 16:28	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 14:58	09/23/24 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*09/21/24 14:58*	*09/23/24 16:28*	*1*
o-Terphenyl	*83*		*70 - 130*	*09/21/24 14:58*	*09/23/24 16:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**475**		5.05	0.399	mg/Kg			09/20/24 20:55	1

Client Sample ID: B-22-4'
Date Collected: 09/18/24 09:45
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:45	09/21/24 18:59	1
Toluene	**0.00286**		0.00200	0.00200	mg/Kg		09/20/24 13:45	09/21/24 18:59	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:45	09/21/24 18:59	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:45	09/21/24 18:59	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:45	09/21/24 18:59	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:45	09/21/24 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/20/24 13:45*	*09/21/24 18:59*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:45*	*09/21/24 18:59*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-22-4'
Date Collected: 09/18/24 09:45
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00286**	**J**	0.00401	0.00229	mg/Kg			09/21/24 18:59	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	49.9	15.1	mg/Kg			09/23/24 16:43	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	<14.5	U	49.9	14.5	mg/Kg		09/21/24 14:58	09/23/24 16:43	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:58	09/23/24 16:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:58	09/23/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*09/21/24 14:58*	*09/23/24 16:43*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/21/24 14:58*	*09/23/24 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**810**		5.05	0.399	mg/Kg			09/20/24 21:15	1

Client Sample ID: B-23-4'
Date Collected: 09/18/24 09:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/20/24 13:45	09/21/24 20:21	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:45	09/21/24 20:21	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:45	09/21/24 20:21	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:45	09/21/24 20:21	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/20/24 13:45	09/21/24 20:21	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:45	09/21/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:45*	*09/21/24 20:21*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/20/24 13:45*	*09/21/24 20:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/21/24 20:21	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	50.0	15.1	mg/Kg			09/23/24 17:13	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	<14.5	U	50.0	14.5	mg/Kg		09/21/24 14:58	09/23/24 17:13	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 14:58	09/23/24 17:13	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-23-4'
Date Collected: 09/18/24 09:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 14:58	09/23/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*09/21/24 14:58*	*09/23/24 17:13*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/21/24 14:58*	*09/23/24 17:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**426**		4.97	0.393	mg/Kg			09/20/24 21:22	1

Client Sample ID: B-7-4'
Date Collected: 09/18/24 09:55
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/20/24 13:45	09/21/24 20:41	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:45	09/21/24 20:41	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:45	09/21/24 20:41	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:45	09/21/24 20:41	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/20/24 13:45	09/21/24 20:41	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:45	09/21/24 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:45*	*09/21/24 20:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:45*	*09/21/24 20:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/21/24 20:41	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	49.6	15.0	mg/Kg			09/23/24 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		09/21/24 14:58	09/23/24 17:28	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		09/21/24 14:58	09/23/24 17:28	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		09/21/24 14:58	09/23/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*09/21/24 14:58*	*09/23/24 17:28*	*1*
o-Terphenyl	*93*		*70 - 130*	*09/21/24 14:58*	*09/23/24 17:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**936**		24.8	1.96	mg/Kg			09/20/24 21:28	5

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-24-4'

Date Collected: 09/18/24 10:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:45	09/21/24 21:02	1
Toluene	**0.00203**		0.00200	0.00200	mg/Kg		09/20/24 13:45	09/21/24 21:02	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:45	09/21/24 21:02	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:45	09/21/24 21:02	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:45	09/21/24 21:02	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:45	09/21/24 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:45*	*09/21/24 21:02*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/20/24 13:45*	*09/21/24 21:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/21/24 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	<15.0	U	49.6	15.0	mg/Kg			09/23/24 17:43	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	<14.4	U	49.6	14.4	mg/Kg		09/21/24 14:58	09/23/24 17:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		09/21/24 14:58	09/23/24 17:43	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		09/21/24 14:58	09/23/24 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*09/21/24 14:58*	*09/23/24 17:43*	*1*
o-Terphenyl	*83*		*70 - 130*	*09/21/24 14:58*	*09/23/24 17:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**795**		5.05	0.399	mg/Kg			09/20/24 21:35	1

Client Sample ID: B-25-4'

Date Collected: 09/18/24 10:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-14

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:45	09/21/24 21:22	1
Toluene	**0.00221**		0.00200	0.00200	mg/Kg		09/20/24 13:45	09/21/24 21:22	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:45	09/21/24 21:22	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:45	09/21/24 21:22	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:45	09/21/24 21:22	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:45	09/21/24 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:45*	*09/21/24 21:22*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:45*	*09/21/24 21:22*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-25-4'
Date Collected: 09/18/24 10:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/21/24 21:22	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	50.2	15.2	mg/Kg			09/23/24 17:58	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	<14.6	U	50.2	14.6	mg/Kg		09/21/24 14:58	09/23/24 17:58	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 14:58	09/23/24 17:58	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 14:58	09/23/24 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*09/21/24 14:58*	*09/23/24 17:58*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/21/24 14:58*	*09/23/24 17:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**679**		4.97	0.393	mg/Kg			09/20/24 21:42	1

Client Sample ID: B-26-4'
Date Collected: 09/18/24 10:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/20/24 13:45	09/21/24 21:43	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:45	09/21/24 21:43	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:45	09/21/24 21:43	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:45	09/21/24 21:43	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/20/24 13:45	09/21/24 21:43	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:45	09/21/24 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:45*	*09/21/24 21:43*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:45*	*09/21/24 21:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/21/24 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.4	15.3	mg/Kg			09/23/24 18:13	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	<14.6	U	50.4	14.6	mg/Kg		09/21/24 14:58	09/23/24 18:13	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 14:58	09/23/24 18:13	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-26-4'
Date Collected: 09/18/24 10:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 14:58	09/23/24 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*09/21/24 14:58*	*09/23/24 18:13*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/21/24 14:58*	*09/23/24 18:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**920**	**F1**	4.96	0.392	mg/Kg			09/20/24 21:48	1

Client Sample ID: B-27-4'
Date Collected: 09/18/24 10:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		09/20/24 13:45	09/21/24 22:03	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		09/20/24 13:45	09/21/24 22:03	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		09/20/24 13:45	09/21/24 22:03	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:45	09/21/24 22:03	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		09/20/24 13:45	09/21/24 22:03	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:45	09/21/24 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:45*	*09/21/24 22:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:45*	*09/21/24 22:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			09/21/24 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.5	15.3	mg/Kg			09/23/24 18:27	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	<14.7	U	50.5	14.7	mg/Kg		09/21/24 14:58	09/23/24 18:27	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 14:58	09/23/24 18:27	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 14:58	09/23/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*09/21/24 14:58*	*09/23/24 18:27*	*1*
o-Terphenyl	*83*		*70 - 130*	*09/21/24 14:58*	*09/23/24 18:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**996**		24.9	1.97	mg/Kg			09/20/24 22:08	5

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-28-4'
Date Collected: 09/18/24 10:45
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/20/24 13:45	09/21/24 22:24	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:45	09/21/24 22:24	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:45	09/21/24 22:24	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:45	09/21/24 22:24	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/20/24 13:45	09/21/24 22:24	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:45	09/21/24 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/20/24 13:45*	*09/21/24 22:24*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/20/24 13:45*	*09/21/24 22:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/21/24 22:24	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	50.3	15.2	mg/Kg			09/23/24 18:42	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	<14.6	U	50.3	14.6	mg/Kg		09/21/24 14:58	09/23/24 18:42	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 14:58	09/23/24 18:42	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 14:58	09/23/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*09/21/24 14:58*	*09/23/24 18:42*	*1*
o-Terphenyl	*84*		*70 - 130*	*09/21/24 14:58*	*09/23/24 18:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1170**		24.9	1.97	mg/Kg			09/20/24 22:15	5

Client Sample ID: B-29-4'
Date Collected: 09/18/24 10:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:45	09/21/24 22:44	1
Toluene	**0.00272**		0.00200	0.00200	mg/Kg		09/20/24 13:45	09/21/24 22:44	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:45	09/21/24 22:44	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:45	09/21/24 22:44	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:45	09/21/24 22:44	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:45	09/21/24 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/20/24 13:45*	*09/21/24 22:44*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:45*	*09/21/24 22:44*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-29-4'
Date Collected: 09/18/24 10:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-18
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00272**	**J**	0.00399	0.00228	mg/Kg			09/21/24 22:44	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	50.3	15.2	mg/Kg			09/23/24 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	<14.6	U	50.3	14.6	mg/Kg		09/21/24 14:58	09/23/24 18:57	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 14:58	09/23/24 18:57	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 14:58	09/23/24 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*09/21/24 14:58*	*09/23/24 18:57*	*1*
o-Terphenyl	*93*		*70 - 130*	*09/21/24 14:58*	*09/23/24 18:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1530**		24.9	1.96	mg/Kg			09/20/24 22:35	5

Client Sample ID: B-30-4'
Date Collected: 09/18/24 10:55
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/20/24 13:45	09/21/24 23:05	1
Toluene	**0.00277**		0.00201	0.00201	mg/Kg		09/20/24 13:45	09/21/24 23:05	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		09/20/24 13:45	09/21/24 23:05	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		09/20/24 13:45	09/21/24 23:05	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/20/24 13:45	09/21/24 23:05	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		09/20/24 13:45	09/21/24 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/20/24 13:45*	*09/21/24 23:05*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/20/24 13:45*	*09/21/24 23:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00277**	**J**	0.00402	0.00230	mg/Kg			09/21/24 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.5	15.3	mg/Kg			09/23/24 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.7	U	50.5	14.7	mg/Kg		09/21/24 14:58	09/23/24 19:11	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 14:58	09/23/24 19:11	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-30-4'
Date Collected: 09/18/24 10:55
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 14:58	09/23/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*09/21/24 14:58*	*09/23/24 19:11*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/21/24 14:58*	*09/23/24 19:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1710**		25.1	1.98	mg/Kg			09/20/24 22:42	5

Client Sample ID: B-31-4'
Date Collected: 09/18/24 11:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		09/20/24 13:45	09/21/24 23:25	1
Toluene	**0.00220**		0.00202	0.00202	mg/Kg		09/20/24 13:45	09/21/24 23:25	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/20/24 13:45	09/21/24 23:25	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		09/20/24 13:45	09/21/24 23:25	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/20/24 13:45	09/21/24 23:25	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		09/20/24 13:45	09/21/24 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:45*	*09/21/24 23:25*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:45*	*09/21/24 23:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			09/21/24 23:25	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	49.9	15.1	mg/Kg			09/23/24 19:27	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	<14.5	U	49.9	14.5	mg/Kg		09/21/24 14:58	09/23/24 19:27	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:58	09/23/24 19:27	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 14:58	09/23/24 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*09/21/24 14:58*	*09/23/24 19:27*	*1*
o-Terphenyl	*84*		*70 - 130*	*09/21/24 14:58*	*09/23/24 19:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1190**		25.3	1.99	mg/Kg			09/20/24 22:48	5

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-32-4'
Date Collected: 09/18/24 13:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/20/24 13:52	09/22/24 02:29	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		09/20/24 13:52	09/22/24 02:29	1
Ethylbenzene	<0.00109	U F1	0.00201	0.00109	mg/Kg		09/20/24 13:52	09/22/24 02:29	1
m-Xylene & p-Xylene	<0.00229	U F1	0.00402	0.00229	mg/Kg		09/20/24 13:52	09/22/24 02:29	1
o-Xylene	<0.00159	U F1	0.00201	0.00159	mg/Kg		09/20/24 13:52	09/22/24 02:29	1
Xylenes, Total	<0.00229	U F1	0.00402	0.00229	mg/Kg		09/20/24 13:52	09/22/24 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/20/24 13:52*	*09/22/24 02:29*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:52*	*09/22/24 02:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			09/22/24 02:29	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	50.3	15.2	mg/Kg			09/23/24 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U F1	50.3	14.6	mg/Kg		09/21/24 15:00	09/23/24 14:00	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:00	09/23/24 14:00	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:00	09/23/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*09/21/24 15:00*	*09/23/24 14:00*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/21/24 15:00*	*09/23/24 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**782**		24.9	1.96	mg/Kg			09/20/24 22:55	5

Client Sample ID: B-33-4'
Date Collected: 09/18/24 13:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		09/20/24 13:52	09/22/24 02:50	1
Toluene	**0.00349**		0.00198	0.00198	mg/Kg		09/20/24 13:52	09/22/24 02:50	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		09/20/24 13:52	09/22/24 02:50	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:52	09/22/24 02:50	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		09/20/24 13:52	09/22/24 02:50	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:52	09/22/24 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/20/24 13:52*	*09/22/24 02:50*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:52*	*09/22/24 02:50*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-33-4'
Date Collected: 09/18/24 13:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00349**	**J**	0.00396	0.00226	mg/Kg			09/22/24 02:50	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	49.9	15.1	mg/Kg			09/23/24 14:44	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	<14.5	U	49.9	14.5	mg/Kg		09/21/24 15:00	09/23/24 14:44	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 15:00	09/23/24 14:44	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 15:00	09/23/24 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*09/21/24 15:00*	*09/23/24 14:44*	*1*
o-Terphenyl	*82*		*70 - 130*	*09/21/24 15:00*	*09/23/24 14:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		24.8	1.96	mg/Kg			09/20/24 23:02	5

Client Sample ID: B-34-4'
Date Collected: 09/18/24 13:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:52	09/22/24 03:10	1
Toluene	**0.00272**		0.00200	0.00200	mg/Kg		09/20/24 13:52	09/22/24 03:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:52	09/22/24 03:10	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:52	09/22/24 03:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:52	09/22/24 03:10	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:52	09/22/24 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/20/24 13:52*	*09/22/24 03:10*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:52*	*09/22/24 03:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00272**	**J**	0.00399	0.00228	mg/Kg			09/22/24 03:10	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	50.3	15.2	mg/Kg			09/23/24 14:59	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	<14.6	U	50.3	14.6	mg/Kg		09/21/24 15:00	09/23/24 14:59	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:00	09/23/24 14:59	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-34-4'
Date Collected: 09/18/24 13:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:00	09/23/24 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*09/21/24 15:00*	*09/23/24 14:59*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/21/24 15:00*	*09/23/24 14:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**836**		25.3	1.99	mg/Kg			09/20/24 23:08	5

Client Sample ID: B-35-4'
Date Collected: 09/18/24 13:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-24
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:52	09/22/24 03:31	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:52	09/22/24 03:31	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:52	09/22/24 03:31	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:52	09/22/24 03:31	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:52	09/22/24 03:31	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:52	09/22/24 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/20/24 13:52*	*09/22/24 03:31*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:52*	*09/22/24 03:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/22/24 03:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**19.4**	**J**	50.1	15.2	mg/Kg			09/23/24 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.1	14.6	mg/Kg		09/21/24 15:00	09/23/24 15:13	1
Diesel Range Organics (Over C10-C28)	**19.4**	**J**	50.1	15.2	mg/Kg		09/21/24 15:00	09/23/24 15:13	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		09/21/24 15:00	09/23/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*09/21/24 15:00*	*09/23/24 15:13*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/21/24 15:00*	*09/23/24 15:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1070**		24.9	1.96	mg/Kg			09/20/24 23:15	5

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-36-4'

Date Collected: 09/18/24 13:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/20/24 13:52	09/22/24 03:51	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:52	09/22/24 03:51	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:52	09/22/24 03:51	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:52	09/22/24 03:51	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/20/24 13:52	09/22/24 03:51	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:52	09/22/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/20/24 13:52*	*09/22/24 03:51*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:52*	*09/22/24 03:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/22/24 03:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.4	15.3	mg/Kg			09/23/24 15:28	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	<14.6	U	50.4	14.6	mg/Kg		09/21/24 15:00	09/23/24 15:28	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 15:00	09/23/24 15:28	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 15:00	09/23/24 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*09/21/24 15:00*	*09/23/24 15:28*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/21/24 15:00*	*09/23/24 15:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2090**	**F1**	24.8	1.96	mg/Kg			09/20/24 23:11	5

Client Sample ID: B-37-4'

Date Collected: 09/18/24 13:45
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-26
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/20/24 13:52	09/22/24 04:12	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:52	09/22/24 04:12	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:52	09/22/24 04:12	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:52	09/22/24 04:12	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/20/24 13:52	09/22/24 04:12	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:52	09/22/24 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/20/24 13:52*	*09/22/24 04:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:52*	*09/22/24 04:12*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-37-4'
Date Collected: 09/18/24 13:45
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-26
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/22/24 04:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.5	15.3	mg/Kg			09/23/24 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.7	U	50.5	14.7	mg/Kg		09/21/24 15:00	09/23/24 15:44	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 15:00	09/23/24 15:44	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 15:00	09/23/24 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*09/21/24 15:00*	*09/23/24 15:44*	*1*
o-Terphenyl	*80*		*70 - 130*	*09/21/24 15:00*	*09/23/24 15:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2110**		24.8	1.96	mg/Kg			09/20/24 23:27	5

Client Sample ID: B-38-4'
Date Collected: 09/18/24 13:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:52	09/22/24 04:32	1
Toluene	**0.00269**		0.00200	0.00200	mg/Kg		09/20/24 13:52	09/22/24 04:32	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:52	09/22/24 04:32	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:52	09/22/24 04:32	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:52	09/22/24 04:32	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:52	09/22/24 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:52*	*09/22/24 04:32*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:52*	*09/22/24 04:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00269**	**J**	0.00399	0.00228	mg/Kg			09/22/24 04:32	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	49.7	15.0	mg/Kg			09/23/24 15:58	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	<14.4	U	49.7	14.4	mg/Kg		09/21/24 15:00	09/23/24 15:58	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		09/21/24 15:00	09/23/24 15:58	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-38-4'
Date Collected: 09/18/24 13:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/21/24 15:00	09/23/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*09/21/24 15:00*	*09/23/24 15:58*	*1*
o-Terphenyl	*76*		*70 - 130*	*09/21/24 15:00*	*09/23/24 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1030**		25.0	1.97	mg/Kg			09/20/24 23:33	5

Client Sample ID: B-39-4'
Date Collected: 09/18/24 13:55
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-28
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:52	09/22/24 04:53	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:52	09/22/24 04:53	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:52	09/22/24 04:53	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:52	09/22/24 04:53	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:52	09/22/24 04:53	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:52	09/22/24 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:52*	*09/22/24 04:53*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:52*	*09/22/24 04:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/22/24 04:53	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	49.9	15.1	mg/Kg			09/23/24 16:13	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	<14.5	U	49.9	14.5	mg/Kg		09/21/24 15:00	09/23/24 16:13	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 15:00	09/23/24 16:13	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 15:00	09/23/24 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*09/21/24 15:00*	*09/23/24 16:13*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/21/24 15:00*	*09/23/24 16:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**506**		4.96	0.392	mg/Kg			09/20/24 23:38	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-40-4'

Date Collected: 09/18/24 14:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-29

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/20/24 13:52	09/22/24 05:13	1
Toluene	**0.00287**		0.00202	0.00202	mg/Kg		09/20/24 13:52	09/22/24 05:13	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/20/24 13:52	09/22/24 05:13	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/20/24 13:52	09/22/24 05:13	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/20/24 13:52	09/22/24 05:13	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/20/24 13:52	09/22/24 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/20/24 13:52*	*09/22/24 05:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/20/24 13:52*	*09/22/24 05:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00287**	**J**	0.00403	0.00230	mg/Kg			09/22/24 05:13	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	50.0	15.1	mg/Kg			09/23/24 16:28	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	<14.5	U	50.0	14.5	mg/Kg		09/21/24 15:00	09/23/24 16:28	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 15:00	09/23/24 16:28	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 15:00	09/23/24 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*09/21/24 15:00*	*09/23/24 16:28*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/21/24 15:00*	*09/23/24 16:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1340**		25.3	1.99	mg/Kg			09/20/24 23:44	5

Client Sample ID: B-41-4'

Date Collected: 09/18/24 14:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-30

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:52	09/22/24 05:34	1
Toluene	**0.00208**		0.00200	0.00200	mg/Kg		09/20/24 13:52	09/22/24 05:34	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:52	09/22/24 05:34	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:52	09/22/24 05:34	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:52	09/22/24 05:34	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:52	09/22/24 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/20/24 13:52*	*09/22/24 05:34*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:52*	*09/22/24 05:34*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-41-4'
Date Collected: 09/18/24 14:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-30
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/22/24 05:34	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	49.8	15.1	mg/Kg			09/23/24 16:43	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	<14.5	U	49.8	14.5	mg/Kg		09/21/24 15:00	09/23/24 16:43	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 15:00	09/23/24 16:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 15:00	09/23/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*09/21/24 15:00*	*09/23/24 16:43*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/21/24 15:00*	*09/23/24 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**857**		4.96	0.392	mg/Kg			09/21/24 00:00	1

Client Sample ID: B-42-4'
Date Collected: 09/18/24 11:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-31
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/20/24 13:52	09/22/24 06:56	1
Toluene	**0.00328**		0.00199	0.00199	mg/Kg		09/20/24 13:52	09/22/24 06:56	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:52	09/22/24 06:56	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:52	09/22/24 06:56	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/20/24 13:52	09/22/24 06:56	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:52	09/22/24 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/20/24 13:52*	*09/22/24 06:56*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:52*	*09/22/24 06:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00328**	**J**	0.00398	0.00228	mg/Kg			09/22/24 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	<15.0	U	49.6	15.0	mg/Kg			09/23/24 17:13	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	<14.4	U	49.6	14.4	mg/Kg		09/21/24 15:00	09/23/24 17:13	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		09/21/24 15:00	09/23/24 17:13	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-42-4'
Date Collected: 09/18/24 11:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-31
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		09/21/24 15:00	09/23/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*09/21/24 15:00*	*09/23/24 17:13*	*1*
o-Terphenyl	*75*		*70 - 130*	*09/21/24 15:00*	*09/23/24 17:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1340**		24.9	1.97	mg/Kg			09/21/24 00:05	5

Client Sample ID: B-43-4'
Date Collected: 09/18/24 11:15
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-32
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/20/24 13:52	09/22/24 07:16	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:52	09/22/24 07:16	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:52	09/22/24 07:16	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:52	09/22/24 07:16	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/20/24 13:52	09/22/24 07:16	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:52	09/22/24 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/20/24 13:52*	*09/22/24 07:16*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/20/24 13:52*	*09/22/24 07:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/22/24 07:16	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	50.3	15.2	mg/Kg			09/23/24 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.3	14.6	mg/Kg		09/21/24 15:00	09/23/24 17:28	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:00	09/23/24 17:28	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:00	09/23/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*09/21/24 15:00*	*09/23/24 17:28*	*1*
o-Terphenyl	*78*		*70 - 130*	*09/21/24 15:00*	*09/23/24 17:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**768**		4.97	0.393	mg/Kg			09/21/24 00:11	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-44-4'
Date Collected: 09/18/24 11:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:52	09/22/24 07:37	1
Toluene	**0.00249**		0.00200	0.00200	mg/Kg		09/20/24 13:52	09/22/24 07:37	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:52	09/22/24 07:37	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:52	09/22/24 07:37	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:52	09/22/24 07:37	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:52	09/22/24 07:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:52*	*09/22/24 07:37*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:52*	*09/22/24 07:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00249**	**J**	0.00399	0.00228	mg/Kg			09/22/24 07:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.2	15.2	mg/Kg			09/23/24 17:43	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	<14.6	U	50.2	14.6	mg/Kg		09/21/24 15:00	09/23/24 17:43	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 15:00	09/23/24 17:43	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 15:00	09/23/24 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*09/21/24 15:00*	*09/23/24 17:43*	*1*
o-Terphenyl	*76*		*70 - 130*	*09/21/24 15:00*	*09/23/24 17:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1110**		4.96	0.392	mg/Kg			09/21/24 00:16	1

Client Sample ID: B-45-4'
Date Collected: 09/18/24 11:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-34
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:52	09/22/24 07:57	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:52	09/22/24 07:57	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:52	09/22/24 07:57	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:52	09/22/24 07:57	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:52	09/22/24 07:57	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:52	09/22/24 07:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/20/24 13:52*	*09/22/24 07:57*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/20/24 13:52*	*09/22/24 07:57*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-45-4'
Date Collected: 09/18/24 11:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-34
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/22/24 07:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.4	15.3	mg/Kg			09/23/24 17:58	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	<14.6	U	50.4	14.6	mg/Kg		09/21/24 15:00	09/23/24 17:58	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 15:00	09/23/24 17:58	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		09/21/24 15:00	09/23/24 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*09/21/24 15:00*	*09/23/24 17:58*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/21/24 15:00*	*09/23/24 17:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2200**		25.3	1.99	mg/Kg			09/21/24 00:22	5

Client Sample ID: B-46-4'
Date Collected: 09/18/24 11:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/20/24 13:52	09/22/24 08:18	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:52	09/22/24 08:18	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:52	09/22/24 08:18	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:52	09/22/24 08:18	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/20/24 13:52	09/22/24 08:18	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:52	09/22/24 08:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/20/24 13:52*	*09/22/24 08:18*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/20/24 13:52*	*09/22/24 08:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/22/24 08:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.9**	**J**	50.1	15.1	mg/Kg			09/23/24 18:13	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	<14.5	U	50.1	14.5	mg/Kg		09/21/24 15:00	09/23/24 18:13	1
Diesel Range Organics (Over C10-C28)	**17.9**	**J**	50.1	15.1	mg/Kg		09/21/24 15:00	09/23/24 18:13	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-46-4'
Date Collected: 09/18/24 11:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		09/21/24 15:00	09/23/24 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*09/21/24 15:00*	*09/23/24 18:13*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/21/24 15:00*	*09/23/24 18:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2350**	**F1**	24.9	1.97	mg/Kg			09/21/24 00:27	5

Client Sample ID: B-47-4'
Date Collected: 09/18/24 13:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-36
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		09/20/24 13:52	09/22/24 08:38	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		09/20/24 13:52	09/22/24 08:38	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		09/20/24 13:52	09/22/24 08:38	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:52	09/22/24 08:38	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		09/20/24 13:52	09/22/24 08:38	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:52	09/22/24 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/20/24 13:52*	*09/22/24 08:38*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:52*	*09/22/24 08:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			09/22/24 08:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.5	15.3	mg/Kg			09/23/24 18:27	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	<14.7	U	50.5	14.7	mg/Kg		09/21/24 15:00	09/23/24 18:27	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 15:00	09/23/24 18:27	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg		09/21/24 15:00	09/23/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*09/21/24 15:00*	*09/23/24 18:27*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/21/24 15:00*	*09/23/24 18:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2080**		24.9	1.97	mg/Kg			09/21/24 00:43	5

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-48-4'
Date Collected: 09/18/24 13:05
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-37
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/20/24 13:52	09/22/24 08:59	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:52	09/22/24 08:59	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:52	09/22/24 08:59	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:52	09/22/24 08:59	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/20/24 13:52	09/22/24 08:59	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:52	09/22/24 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/20/24 13:52*	*09/22/24 08:59*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:52*	*09/22/24 08:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/22/24 08:59	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	49.8	15.1	mg/Kg			09/23/24 18:42	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	<14.5	U	49.8	14.5	mg/Kg		09/21/24 15:00	09/23/24 18:42	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 15:00	09/23/24 18:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 15:00	09/23/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*09/21/24 15:00*	*09/23/24 18:42*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/21/24 15:00*	*09/23/24 18:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1580**		24.8	1.96	mg/Kg			09/21/24 00:49	5

Client Sample ID: B-49-4'
Date Collected: 09/18/24 13:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-38
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:52	09/22/24 09:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:52	09/22/24 09:19	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:52	09/22/24 09:19	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:52	09/22/24 09:19	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:52	09/22/24 09:19	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:52	09/22/24 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/20/24 13:52*	*09/22/24 09:19*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/20/24 13:52*	*09/22/24 09:19*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-49-4'
Date Collected: 09/18/24 13:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-38
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/22/24 09:19	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	49.7	15.0	mg/Kg			09/23/24 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	<14.4	U	49.7	14.4	mg/Kg		09/21/24 15:00	09/23/24 18:57	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		09/21/24 15:00	09/23/24 18:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/21/24 15:00	09/23/24 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*09/21/24 15:00*	*09/23/24 18:57*	*1*
o-Terphenyl	*77*		*70 - 130*	*09/21/24 15:00*	*09/23/24 18:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2420**		25.3	1.99	mg/Kg			09/21/24 01:05	5

Client Sample ID: B-50-4'
Date Collected: 09/18/24 13:15
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-39
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/20/24 13:52	09/22/24 09:40	1
Toluene	**0.00292**		0.00201	0.00201	mg/Kg		09/20/24 13:52	09/22/24 09:40	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		09/20/24 13:52	09/22/24 09:40	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		09/20/24 13:52	09/22/24 09:40	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/20/24 13:52	09/22/24 09:40	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		09/20/24 13:52	09/22/24 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/20/24 13:52*	*09/22/24 09:40*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:52*	*09/22/24 09:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00292**	**J**	0.00402	0.00230	mg/Kg			09/22/24 09:40	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	49.9	15.1	mg/Kg			09/23/24 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		09/21/24 15:00	09/23/24 19:11	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 15:00	09/23/24 19:11	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-50-4'
Date Collected: 09/18/24 13:15
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-39
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/21/24 15:00	09/23/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*09/21/24 15:00*	*09/23/24 19:11*	*1*
o-Terphenyl	*77*		*70 - 130*	*09/21/24 15:00*	*09/23/24 19:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1520**		25.2	1.99	mg/Kg			09/21/24 01:10	5

Client Sample ID: B-51-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-40
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		09/20/24 13:52	09/22/24 10:00	1
Toluene	**0.00277**		0.00202	0.00202	mg/Kg		09/20/24 13:52	09/22/24 10:00	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/20/24 13:52	09/22/24 10:00	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		09/20/24 13:52	09/22/24 10:00	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/20/24 13:52	09/22/24 10:00	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		09/20/24 13:52	09/22/24 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/20/24 13:52*	*09/22/24 10:00*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/20/24 13:52*	*09/22/24 10:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00277**	**J**	0.00404	0.00231	mg/Kg			09/22/24 10:00	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	50.0	15.1	mg/Kg			09/23/24 19:27	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	<14.5	U	50.0	14.5	mg/Kg		09/21/24 15:00	09/23/24 19:27	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 15:00	09/23/24 19:27	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 15:00	09/23/24 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*09/21/24 15:00*	*09/23/24 19:27*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/21/24 15:00*	*09/23/24 19:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1040**		25.0	1.97	mg/Kg			09/21/24 01:16	5

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-52-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-41
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/20/24 13:35	09/22/24 23:50	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:35	09/22/24 23:50	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:35	09/22/24 23:50	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:35	09/22/24 23:50	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/20/24 13:35	09/22/24 23:50	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:35	09/22/24 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/20/24 13:35*	*09/22/24 23:50*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/20/24 13:35*	*09/22/24 23:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/22/24 23:50	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	50.3	15.2	mg/Kg			09/21/24 20:25	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	<14.6	U	50.3	14.6	mg/Kg		09/21/24 15:03	09/21/24 20:25	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:03	09/21/24 20:25	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:03	09/21/24 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*09/21/24 15:03*	*09/21/24 20:25*	*1*
o-Terphenyl	*76*		*70 - 130*	*09/21/24 15:03*	*09/21/24 20:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		24.9	1.96	mg/Kg			09/21/24 01:21	5

Client Sample ID: B-53-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-42
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/20/24 13:35	09/23/24 00:10	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:35	09/23/24 00:10	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:35	09/23/24 00:10	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:35	09/23/24 00:10	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/20/24 13:35	09/23/24 00:10	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:35	09/23/24 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:35*	*09/23/24 00:10*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:35*	*09/23/24 00:10*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-53-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-42
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/23/24 00:10	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**	50.1	15.2	mg/Kg			09/21/24 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.1	14.6	mg/Kg		09/21/24 15:03	09/21/24 20:40	1
Diesel Range Organics (Over C10-C28)	**41.7**	**J**	50.1	15.2	mg/Kg		09/21/24 15:03	09/21/24 20:40	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		09/21/24 15:03	09/21/24 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*09/21/24 15:03*	*09/21/24 20:40*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/21/24 15:03*	*09/21/24 20:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1410**		24.8	1.96	mg/Kg			09/21/24 01:26	5

Client Sample ID: B-54-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-43
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/23/24 00:31	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/23/24 00:31	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/23/24 00:31	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:35	09/23/24 00:31	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:35	09/23/24 00:31	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:35	09/23/24 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:35*	*09/23/24 00:31*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:35*	*09/23/24 00:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/23/24 00:31	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	50.1	15.2	mg/Kg			09/21/24 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.1	14.6	mg/Kg		09/21/24 15:03	09/21/24 20:54	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.1	15.2	mg/Kg		09/21/24 15:03	09/21/24 20:54	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-54-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-43
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		09/21/24 15:03	09/21/24 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*09/21/24 15:03*	*09/21/24 20:54*	*1*
o-Terphenyl	*76*		*70 - 130*	*09/21/24 15:03*	*09/21/24 20:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1350**		25.0	1.98	mg/Kg			09/21/24 01:32	5

Client Sample ID: B-55-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-44
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/23/24 00:51	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/23/24 00:51	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/23/24 00:51	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:35	09/23/24 00:51	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:35	09/23/24 00:51	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:35	09/23/24 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/20/24 13:35*	*09/23/24 00:51*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:35*	*09/23/24 00:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/23/24 00:51	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	50.2	15.2	mg/Kg			09/21/24 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.2	14.6	mg/Kg		09/21/24 15:03	09/21/24 21:24	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 15:03	09/21/24 21:24	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		09/21/24 15:03	09/21/24 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*09/21/24 15:03*	*09/21/24 21:24*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/21/24 15:03*	*09/21/24 21:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**863**		24.9	1.97	mg/Kg			09/21/24 01:37	5

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-56-4'

Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-45

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/20/24 13:35	09/23/24 01:11	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:35	09/23/24 01:11	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:35	09/23/24 01:11	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:35	09/23/24 01:11	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/20/24 13:35	09/23/24 01:11	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/20/24 13:35	09/23/24 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/20/24 13:35*	*09/23/24 01:11*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/20/24 13:35*	*09/23/24 01:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/23/24 01:11	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	50.1	15.1	mg/Kg			09/21/24 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.1	14.5	mg/Kg		09/21/24 15:03	09/21/24 21:38	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.1	15.1	mg/Kg		09/21/24 15:03	09/21/24 21:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		09/21/24 15:03	09/21/24 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*09/21/24 15:03*	*09/21/24 21:38*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/21/24 15:03*	*09/21/24 21:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**841**		24.8	1.96	mg/Kg			09/23/24 09:50	5

Client Sample ID: B-57-4'

Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-46

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		09/20/24 13:35	09/23/24 01:32	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		09/20/24 13:35	09/23/24 01:32	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		09/20/24 13:35	09/23/24 01:32	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:35	09/23/24 01:32	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		09/20/24 13:35	09/23/24 01:32	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		09/20/24 13:35	09/23/24 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/20/24 13:35*	*09/23/24 01:32*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:35*	*09/23/24 01:32*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-57-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-46
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			09/23/24 01:32	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	49.5	15.0	mg/Kg			09/21/24 21:53	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	<14.4	U	49.5	14.4	mg/Kg		09/21/24 15:03	09/21/24 21:53	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.5	15.0	mg/Kg		09/21/24 15:03	09/21/24 21:53	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.5	15.0	mg/Kg		09/21/24 15:03	09/21/24 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*09/21/24 15:03*	*09/21/24 21:53*	*1*
o-Terphenyl	*82*		*70 - 130*	*09/21/24 15:03*	*09/21/24 21:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**763**		5.05	0.399	mg/Kg			09/23/24 09:56	1

Client Sample ID: B-58-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-47
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/20/24 13:35	09/23/24 01:52	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/20/24 13:35	09/23/24 01:52	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/20/24 13:35	09/23/24 01:52	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:35	09/23/24 01:52	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/20/24 13:35	09/23/24 01:52	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/20/24 13:35	09/23/24 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/20/24 13:35*	*09/23/24 01:52*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:35*	*09/23/24 01:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/23/24 01:52	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	49.5	15.0	mg/Kg			09/21/24 22:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.5	14.4	mg/Kg		09/21/24 15:03	09/21/24 22:07	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.5	15.0	mg/Kg		09/21/24 15:03	09/21/24 22:07	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-58-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-47
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.5	15.0	mg/Kg		09/21/24 15:03	09/21/24 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*09/21/24 15:03*	*09/21/24 22:07*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/21/24 15:03*	*09/21/24 22:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**834**		5.01	0.396	mg/Kg			09/23/24 10:12	1

Client Sample ID: B-59-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-48
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/23/24 02:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/23/24 02:13	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/23/24 02:13	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:35	09/23/24 02:13	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:35	09/23/24 02:13	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/20/24 13:35	09/23/24 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/20/24 13:35*	*09/23/24 02:13*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/20/24 13:35*	*09/23/24 02:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/23/24 02:13	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	49.8	15.1	mg/Kg			09/21/24 22:22	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	<14.5	U	49.8	14.5	mg/Kg		09/21/24 15:03	09/21/24 22:22	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 15:03	09/21/24 22:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/21/24 15:03	09/21/24 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*09/21/24 15:03*	*09/21/24 22:22*	*1*
o-Terphenyl	*74*		*70 - 130*	*09/21/24 15:03*	*09/21/24 22:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		5.00	0.395	mg/Kg			09/23/24 10:17	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-60-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-49
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/20/24 13:35	09/23/24 02:33	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		09/20/24 13:35	09/23/24 02:33	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		09/20/24 13:35	09/23/24 02:33	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		09/20/24 13:35	09/23/24 02:33	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/20/24 13:35	09/23/24 02:33	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		09/20/24 13:35	09/23/24 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/20/24 13:35*	*09/23/24 02:33*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:35*	*09/23/24 02:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			09/23/24 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**61.3**		50.0	15.1	mg/Kg			09/21/24 22:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/21/24 15:03	09/21/24 22:36	1
Diesel Range Organics (Over C10-C28)	**61.3**		50.0	15.1	mg/Kg		09/21/24 15:03	09/21/24 22:36	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 15:03	09/21/24 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*09/21/24 15:03*	*09/21/24 22:36*	*1*
o-Terphenyl	*75*		*70 - 130*	*09/21/24 15:03*	*09/21/24 22:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1570**		24.9	1.96	mg/Kg			09/23/24 10:23	5

Client Sample ID: B-61-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-50
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		09/20/24 13:35	09/23/24 02:54	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		09/20/24 13:35	09/23/24 02:54	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/20/24 13:35	09/23/24 02:54	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		09/20/24 13:35	09/23/24 02:54	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/20/24 13:35	09/23/24 02:54	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		09/20/24 13:35	09/23/24 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:35*	*09/23/24 02:54*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/20/24 13:35*	*09/23/24 02:54*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-61-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-50
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			09/23/24 02:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.3	15.2	mg/Kg			09/21/24 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.3	14.6	mg/Kg		09/21/24 15:03	09/21/24 22:50	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:03	09/21/24 22:50	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		09/21/24 15:03	09/21/24 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*09/21/24 15:03*	*09/21/24 22:50*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/21/24 15:03*	*09/21/24 22:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1630**		25.3	1.99	mg/Kg			09/23/24 10:28	5

Client Sample ID: B-62-4'
Date Collected: 09/18/24 15:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-51
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:33	09/23/24 06:32	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:33	09/23/24 06:32	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:33	09/23/24 06:32	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:33	09/23/24 06:32	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/20/24 13:33	09/23/24 06:32	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/20/24 13:33	09/23/24 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*09/20/24 13:33*	*09/23/24 06:32*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/20/24 13:33*	*09/23/24 06:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/23/24 06:32	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	50.1	15.2	mg/Kg			09/21/24 23:04	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	<14.6	U	50.1	14.6	mg/Kg		09/21/24 15:03	09/21/24 23:04	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.1	15.2	mg/Kg		09/21/24 15:03	09/21/24 23:04	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-62-4'
Date Collected: 09/18/24 15:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-51
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		09/21/24 15:03	09/21/24 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*09/21/24 15:03*	*09/21/24 23:04*	*1*
o-Terphenyl	*83*		*70 - 130*	*09/21/24 15:03*	*09/21/24 23:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**903**		5.04	0.398	mg/Kg			09/23/24 10:33	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-48759-1	B-13-4'	106	100
880-48759-1 MS	B-13-4'	108	97
880-48759-1 MSD	B-13-4'	103	100
880-48759-2	B-14-4'	106	100
880-48759-3	B-15-4'	104	102
880-48759-4	B-16-4'	105	100
880-48759-5	B-17-4'	106	102
880-48759-6	B-18-4'	106	101
880-48759-7	B-19-4'	108	98
880-48759-8	B-20-4'	105	102
880-48759-9	B-21-4'	107	101
880-48759-10	B-22-4'	106	101
880-48759-11	B-23-4'	105	99
880-48759-12	B-7-4'	105	100
880-48759-13	B-24-4'	105	99
880-48759-14	B-25-4'	102	101
880-48759-15	B-26-4'	108	101
880-48759-16	B-27-4'	105	100
880-48759-17	B-28-4'	110	99
880-48759-18	B-29-4'	109	100
880-48759-19	B-30-4'	112	99
880-48759-20	B-31-4'	108	101
880-48759-21	B-32-4'	107	102
880-48759-21 MS	B-32-4'	100	99
880-48759-21 MSD	B-32-4'	104	98
880-48759-22	B-33-4'	104	101
880-48759-23	B-34-4'	111	100
880-48759-24	B-35-4'	103	100
880-48759-25	B-36-4'	107	101
880-48759-26	B-37-4'	109	101
880-48759-27	B-38-4'	105	101
880-48759-28	B-39-4'	108	101
880-48759-29	B-40-4'	111	98
880-48759-30	B-41-4'	106	102
880-48759-31	B-42-4'	107	100
880-48759-32	B-43-4'	111	98
880-48759-33	B-44-4'	108	101
880-48759-34	B-45-4'	103	104
880-48759-35	B-46-4'	109	99
880-48759-36	B-47-4'	110	100
880-48759-37	B-48-4'	113	100
880-48759-38	B-49-4'	104	103
880-48759-39	B-50-4'	107	100
880-48759-40	B-51-4'	104	104
880-48759-41	B-52-4'	106	103
880-48759-42	B-53-4'	105	101
880-48759-43	B-54-4'	105	102
880-48759-44	B-55-4'	105	101
880-48759-45	B-56-4'	103	103

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 880-48759-1
Project/Site: WLU 41 SDG: Lea 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)
880-48759-46	B-57-4'	110	100
880-48759-47	B-58-4'	102	101
880-48759-48	B-59-4'	111	97
880-48759-49	B-60-4'	110	100
880-48759-50	B-61-4'	108	103
880-48759-51	B-62-4'	126	110
LCS 880-91311/1-A	Lab Control Sample	110	96
LCS 880-91356/1-A	Lab Control Sample	100	100
LCS 880-91357/1-A	Lab Control Sample	106	96
LCS 880-91358/1-A	Lab Control Sample	100	99
LCSD 880-91311/2-A	Lab Control Sample Dup	110	103
LCSD 880-91356/2-A	Lab Control Sample Dup	103	98
LCSD 880-91357/2-A	Lab Control Sample Dup	101	100
LCSD 880-91358/2-A	Lab Control Sample Dup	98	98
MB 880-91227/5-A	Method Blank	170 S1+	99
MB 880-91311/5-A	Method Blank	185 S1+	113
MB 880-91356/5-A	Method Blank	108	100
MB 880-91357/5-A	Method Blank	101	97
MB 880-91358/5-A	Method Blank	99	99

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)
880-48759-1	B-13-4'	85	83
880-48759-1 MS	B-13-4'	99	91
880-48759-1 MSD	B-13-4'	114	102
880-48759-2	B-14-4'	82	78
880-48759-3	B-15-4'	84	80
880-48759-4	B-16-4'	79	75
880-48759-5	B-17-4'	81	77
880-48759-6	B-18-4'	85	81
880-48759-7	B-19-4'	84	82
880-48759-8	B-20-4'	142 S1+	127
880-48759-9	B-21-4'	86	83
880-48759-10	B-22-4'	88	86
880-48759-11	B-23-4'	87	86
880-48759-12	B-7-4'	97	93
880-48759-13	B-24-4'	86	83
880-48759-14	B-25-4'	88	86
880-48759-15	B-26-4'	90	88
880-48759-16	B-27-4'	86	83
880-48759-17	B-28-4'	86	84
880-48759-18	B-29-4'	93	93
880-48759-19	B-30-4'	83	81

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-48759-20	B-31-4'	86	84
880-48759-21	B-32-4'	78	81
880-48759-21 MS	B-32-4'	88	85
880-48759-21 MSD	B-32-4'	85	83
880-48759-22	B-33-4'	79	82
880-48759-23	B-34-4'	84	88
880-48759-24	B-35-4'	76	81
880-48759-25	B-36-4'	74	79
880-48759-26	B-37-4'	74	80
880-48759-27	B-38-4'	72	76
880-48759-28	B-39-4'	73	79
880-48759-29	B-40-4'	74	79
880-48759-30	B-41-4'	74	79
880-48759-31	B-42-4'	69 S1-	75
880-48759-32	B-43-4'	72	78
880-48759-33	B-44-4'	71	76
880-48759-34	B-45-4'	76	81
880-48759-35	B-46-4'	101	102
880-48759-36	B-47-4'	75	79
880-48759-37	B-48-4'	77	79
880-48759-38	B-49-4'	73	77
880-48759-39	B-50-4'	72	77
880-48759-40	B-51-4'	76	79
880-48759-41	B-52-4'	70	76
880-48759-42	B-53-4'	74	79
880-48759-43	B-54-4'	70	76
880-48759-44	B-55-4'	73	81
880-48759-45	B-56-4'	80	88
880-48759-46	B-57-4'	76	82
880-48759-47	B-58-4'	72	79
880-48759-48	B-59-4'	67 S1-	74
880-48759-49	B-60-4'	67 S1-	75
880-48759-50	B-61-4'	73	81
880-48759-51	B-62-4'	77	83
LCS 880-91401/2-A	Lab Control Sample	107	99
LCS 880-91402/2-A	Lab Control Sample	156 S1+	156 S1+
LCS 880-91403/2-A	Lab Control Sample	128	131 S1+
LCSD 880-91401/3-A	Lab Control Sample Dup	112	104
LCSD 880-91402/3-A	Lab Control Sample Dup	134 S1+	133 S1+
LCSD 880-91403/3-A	Lab Control Sample Dup	117	119
MB 880-91401/1-A	Method Blank	76	74
MB 880-91402/1-A	Method Blank	62 S1-	69 S1-
MB 880-91403/1-A	Method Blank	86	99

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-91227/5-A
Matrix: Solid
Analysis Batch: 91420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/19/24 13:42	09/22/24 16:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/19/24 13:42	09/22/24 16:04	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/19/24 13:42	09/22/24 16:04	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/19/24 13:42	09/22/24 16:04	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/19/24 13:42	09/22/24 16:04	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/19/24 13:42	09/22/24 16:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*	*09/19/24 13:42*	*09/22/24 16:04*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/19/24 13:42*	*09/22/24 16:04*	*1*

Lab Sample ID: MB 880-91311/5-A
Matrix: Solid
Analysis Batch: 91420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 10:45	09/23/24 03:40	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 10:45	09/23/24 03:40	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 10:45	09/23/24 03:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 10:45	09/23/24 03:40	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 10:45	09/23/24 03:40	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 10:45	09/23/24 03:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*185*	*S1+*	*70 - 130*	*09/20/24 10:45*	*09/23/24 03:40*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/20/24 10:45*	*09/23/24 03:40*	*1*

Lab Sample ID: LCS 880-91311/1-A
Matrix: Solid
Analysis Batch: 91420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91311

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08794		mg/Kg		88	70 - 130
Toluene	0.100	0.08031		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.09666		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09591		mg/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-91311/2-A
Matrix: Solid
Analysis Batch: 91420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91311

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09488		mg/Kg		95	70 - 130	8	35

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-91311/2-A
Matrix: Solid
Analysis Batch: 91420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91311

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08076		mg/Kg		81	70 - 130	1	35
Ethylbenzene			0.100	0.09871		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2166		mg/Kg		108	70 - 130	4	35
o-Xylene			0.100	0.1007		mg/Kg		101	70 - 130	5	35

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

Lab Sample ID: MB 880-91356/5-A
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:35	09/22/24 19:01	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 13:35	09/22/24 19:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/20/24 13:35*	*09/22/24 19:01*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/20/24 13:35*	*09/22/24 19:01*	*1*

Lab Sample ID: LCS 880-91356/1-A
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91356

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.09879		mg/Kg		99	70 - 130
Toluene			0.100	0.09494		mg/Kg		95	70 - 130
Ethylbenzene			0.100	0.09446		mg/Kg		94	70 - 130
m-Xylene & p-Xylene			0.200	0.1977		mg/Kg		99	70 - 130
o-Xylene			0.100	0.09885		mg/Kg		99	70 - 130

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

Lab Sample ID: LCSD 880-91356/2-A
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91356

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09807		mg/Kg		98	70 - 130	1	35
Toluene			0.100	0.09454		mg/Kg		95	70 - 130	0	35
Ethylbenzene			0.100	0.09418		mg/Kg		94	70 - 130	0	35

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-91356/2-A
Matrix: Solid
Analysis Batch: 91418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91356

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1970		mg/Kg		98	70 - 130	0	35
o-Xylene			0.100	0.09844		mg/Kg		98	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-91357/5-A
Matrix: Solid
Analysis Batch: 91392

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:45	09/21/24 15:33	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:45	09/21/24 15:33	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:45	09/21/24 15:33	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 13:45	09/21/24 15:33	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:45	09/21/24 15:33	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 13:45	09/21/24 15:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/20/24 13:45*	*09/21/24 15:33*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/20/24 13:45*	*09/21/24 15:33*	*1*

Lab Sample ID: LCS 880-91357/1-A
Matrix: Solid
Analysis Batch: 91392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91357

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08633		mg/Kg		86	70 - 130
Toluene			0.100	0.08234		mg/Kg		82	70 - 130
Ethylbenzene			0.100	0.08208		mg/Kg		82	70 - 130
m-Xylene & p-Xylene			0.200	0.1749		mg/Kg		87	70 - 130
o-Xylene			0.100	0.08750		mg/Kg		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-91357/2-A
Matrix: Solid
Analysis Batch: 91392

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91357

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09170		mg/Kg		92	70 - 130	6	35
Toluene			0.100	0.08760		mg/Kg		88	70 - 130	6	35
Ethylbenzene			0.100	0.08680		mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1850		mg/Kg		92	70 - 130	6	35
o-Xylene			0.100	0.09265		mg/Kg		93	70 - 130	6	35

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-48759-1 MS — **Client Sample ID: B-13-4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91392 — **Prep Batch: 91357**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00140	U	0.0996	0.08453		mg/Kg		85	70 - 130
Toluene	<0.00201	U	0.0996	0.08099		mg/Kg		81	70 - 130
Ethylbenzene	<0.00109	U	0.0996	0.07982		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.199	0.1697		mg/Kg		85	70 - 130
o-Xylene	<0.00159	U	0.0996	0.08497		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-48759-1 MSD — **Client Sample ID: B-13-4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91392 — **Prep Batch: 91357**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00140	U	0.100	0.08989		mg/Kg		90	70 - 130	6	35
Toluene	<0.00201	U	0.100	0.08548		mg/Kg		85	70 - 130	5	35
Ethylbenzene	<0.00109	U	0.100	0.08478		mg/Kg		84	70 - 130	6	35
m-Xylene & p-Xylene	<0.00229	U	0.201	0.1803		mg/Kg		90	70 - 130	6	35
o-Xylene	<0.00159	U	0.100	0.09018		mg/Kg		90	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-91358/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 91392 — **Prep Batch: 91358**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/20/24 13:52	09/22/24 02:08	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/20/24 13:52	09/22/24 02:08	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/20/24 13:52	09/22/24 02:08	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 13:52	09/22/24 02:08	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/20/24 13:52	09/22/24 02:08	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/20/24 13:52	09/22/24 02:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/20/24 13:52	09/22/24 02:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/20/24 13:52	09/22/24 02:08	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-91358/1-A
Matrix: Solid
Analysis Batch: 91392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91358

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08031		mg/Kg		80	70 - 130		
Toluene			0.100	0.07582		mg/Kg		76	70 - 130		
Ethylbenzene			0.100	0.07349		mg/Kg		73	70 - 130		
m-Xylene & p-Xylene			0.200	0.1563		mg/Kg		78	70 - 130		
o-Xylene			0.100	0.08055		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-91358/2-A
Matrix: Solid
Analysis Batch: 91392

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91358

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08404		mg/Kg		84	70 - 130	5	35
Toluene			0.100	0.07953		mg/Kg		80	70 - 130	5	35
Ethylbenzene			0.100	0.07719		mg/Kg		77	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1638		mg/Kg		82	70 - 130	5	35
o-Xylene			0.100	0.08394		mg/Kg		84	70 - 130	4	35

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

Lab Sample ID: 880-48759-21 MS
Matrix: Solid
Analysis Batch: 91392

Client Sample ID: B-32-4'
Prep Type: Total/NA
Prep Batch: 91358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00140	U	0.0996	0.07941		mg/Kg		80	70 - 130		
Toluene	<0.00201	U	0.0996	0.07288		mg/Kg		73	70 - 130		
Ethylbenzene	<0.00109	U F1	0.0996	0.06545	F1	mg/Kg		66	70 - 130		
m-Xylene & p-Xylene	<0.00229	U F1	0.199	0.1365	F1	mg/Kg		69	70 - 130		
o-Xylene	<0.00159	U F1	0.0996	0.06724	F1	mg/Kg		68	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-48759-21 MSD
Matrix: Solid
Analysis Batch: 91392

Client Sample ID: B-32-4'
Prep Type: Total/NA
Prep Batch: 91358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00140	U	0.100	0.07796		mg/Kg		78	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.07174		mg/Kg		71	70 - 130	2	35
Ethylbenzene	<0.00109	U F1	0.100	0.06636	F1	mg/Kg		66	70 - 130	1	35

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

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

Lab Sample ID: 880-48759-21 MSD
Matrix: Solid
Analysis Batch: 91392

Client Sample ID: B-32-4'
Prep Type: Total/NA
Prep Batch: 91358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00229	U F1	0.201	0.1384	F1	mg/Kg		69	70 - 130	1	35
o-Xylene	<0.00159	U F1	0.100	0.06874	F1	mg/Kg		68	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-91401/1-A
Matrix: Solid
Analysis Batch: 91465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/21/24 14:58	09/23/24 11:22	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 14:58	09/23/24 11:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 14:58	09/23/24 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*09/21/24 14:58*	*09/23/24 11:22*	*1*
o-Terphenyl	*74*		*70 - 130*	*09/21/24 14:58*	*09/23/24 11:22*	*1*

Lab Sample ID: LCS 880-91401/2-A
Matrix: Solid
Analysis Batch: 91465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	849.4		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	778.1		mg/Kg		78	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-91401/3-A
Matrix: Solid
Analysis Batch: 91465

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91401

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	877.8		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	810.7		mg/Kg		81	70 - 130	4	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-91401/3-A
Matrix: Solid
Analysis Batch: 91465

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91401

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-48759-1 MS
Matrix: Solid
Analysis Batch: 91465

Client Sample ID: B-13-4'
Prep Type: Total/NA
Prep Batch: 91401

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.7	U	997	820.3		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<15.3	U	997	803.5		mg/Kg		81	70 - 130

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

Lab Sample ID: 880-48759-1 MSD
Matrix: Solid
Analysis Batch: 91465

Client Sample ID: B-13-4'
Prep Type: Total/NA
Prep Batch: 91401

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	<14.7	U	997	905.1		mg/Kg		91	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<15.3	U	997	944.1		mg/Kg		95	70 - 130	16	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: MB 880-91402/1-A
Matrix: Solid
Analysis Batch: 91468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/21/24 15:00	09/23/24 11:37	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 15:00	09/23/24 11:37	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 15:00	09/23/24 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130	09/21/24 15:00	09/23/24 11:37	1
o-Terphenyl	69	S1-	70 - 130	09/21/24 15:00	09/23/24 11:37	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-91402/2-A
Matrix: Solid
Analysis Batch: 91468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91402

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1199		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1251		mg/Kg		125	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*156*	*S1+*	*70 - 130*
o-Terphenyl	*156*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-91402/3-A
Matrix: Solid
Analysis Batch: 91468

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91402

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1085		mg/Kg		109	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	1082		mg/Kg		108	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*134*	*S1+*	*70 - 130*
o-Terphenyl	*133*	*S1+*	*70 - 130*

Lab Sample ID: 880-48759-21 MS
Matrix: Solid
Analysis Batch: 91468

Client Sample ID: B-32-4'
Prep Type: Total/NA
Prep Batch: 91402

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.6	U F1	993	660.7	F1	mg/Kg		67	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.2	U	993	729.7		mg/Kg		73	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: 880-48759-21 MSD
Matrix: Solid
Analysis Batch: 91468

Client Sample ID: B-32-4'
Prep Type: Total/NA
Prep Batch: 91402

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	<14.6	U F1	993	653.7	F1	mg/Kg		66	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.2	U	993	697.9		mg/Kg		70	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

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

Lab Sample ID: 880-48759-21 MSD
Matrix: Solid
Analysis Batch: 91468

Client Sample ID: B-32-4'
Prep Type: Total/NA
Prep Batch: 91402

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	83		70 - 130

Lab Sample ID: MB 880-91403/1-A
Matrix: Solid
Analysis Batch: 91406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/21/24 12:03	09/21/24 13:26	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 12:03	09/21/24 13:26	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/21/24 12:03	09/21/24 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	09/21/24 12:03	09/21/24 13:26	1
o-Terphenyl	99		70 - 130	09/21/24 12:03	09/21/24 13:26	1

Lab Sample ID: LCS 880-91403/2-A
Matrix: Solid
Analysis Batch: 91406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1035		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCSD 880-91403/3-A
Matrix: Solid
Analysis Batch: 91406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91403

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	941.0		mg/Kg		94	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	944.1		mg/Kg		94	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	119		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-91353/1-A
Matrix: Solid
Analysis Batch: 91359

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			09/20/24 16:00	1

Lab Sample ID: LCS 880-91353/2-A
Matrix: Solid
Analysis Batch: 91359

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.2		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-91353/3-A
Matrix: Solid
Analysis Batch: 91359

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-91354/1-A
Matrix: Solid
Analysis Batch: 91360

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			09/20/24 19:55	1

Lab Sample ID: LCS 880-91354/2-A
Matrix: Solid
Analysis Batch: 91360

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-91354/3-A
Matrix: Solid
Analysis Batch: 91360

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	250.3		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-48759-5 MS
Matrix: Solid
Analysis Batch: 91360

Client Sample ID: B-17-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	849	F1	249	1065	F1	mg/Kg		87	90 - 110

Lab Sample ID: 880-48759-5 MSD
Matrix: Solid
Analysis Batch: 91360

Client Sample ID: B-17-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	849	F1	249	1064	F1	mg/Kg		86	90 - 110	0	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-48759-15 MS
Matrix: Solid
Analysis Batch: 91360

Client Sample ID: B-26-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	920	F1	248	1134	F1	mg/Kg		86	90 - 110

Lab Sample ID: 880-48759-15 MSD
Matrix: Solid
Analysis Batch: 91360

Client Sample ID: B-26-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	920	F1	248	1134	F1	mg/Kg		86	90 - 110	0	20

Lab Sample ID: MB 880-91355/1-A
Matrix: Solid
Analysis Batch: 91363

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			09/20/24 22:55	1

Lab Sample ID: LCS 880-91355/2-A
Matrix: Solid
Analysis Batch: 91363

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-91355/3-A
Matrix: Solid
Analysis Batch: 91363

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	250.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-48759-25 MS
Matrix: Solid
Analysis Batch: 91363

Client Sample ID: B-36-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2090	F1	1240	3493	F1	mg/Kg		113	90 - 110

Lab Sample ID: 880-48759-25 MSD
Matrix: Solid
Analysis Batch: 91363

Client Sample ID: B-36-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2090	F1	1240	3493	F1	mg/Kg		114	90 - 110	0	20

Lab Sample ID: 880-48759-35 MS
Matrix: Solid
Analysis Batch: 91363

Client Sample ID: B-46-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2350	F1	1250	3840	F1	mg/Kg		120	90 - 110

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-48759-35 MSD
Matrix: Solid
Analysis Batch: 91363

Client Sample ID: B-46-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2350	F1	1250	3829	F1	mg/Kg		119	90 - 110	0	20

Lab Sample ID: MB 880-91426/1-A
Matrix: Solid
Analysis Batch: 91437

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			09/23/24 09:07	1

Lab Sample ID: LCS 880-91426/2-A
Matrix: Solid
Analysis Batch: 91437

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.4		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-91426/3-A
Matrix: Solid
Analysis Batch: 91437

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	235.2		mg/Kg		94	90 - 110	1	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

GC VOA

Prep Batch: 91227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-91227/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 91311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-51	B-62-4'	Total/NA	Solid	5030B	
MB 880-91311/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91311/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91311/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 91356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-41	B-52-4'	Total/NA	Solid	5030B	
880-48759-42	B-53-4'	Total/NA	Solid	5030B	
880-48759-43	B-54-4'	Total/NA	Solid	5030B	
880-48759-44	B-55-4'	Total/NA	Solid	5030B	
880-48759-45	B-56-4'	Total/NA	Solid	5030B	
880-48759-46	B-57-4'	Total/NA	Solid	5030B	
880-48759-47	B-58-4'	Total/NA	Solid	5030B	
880-48759-48	B-59-4'	Total/NA	Solid	5030B	
880-48759-49	B-60-4'	Total/NA	Solid	5030B	
880-48759-50	B-61-4'	Total/NA	Solid	5030B	
MB 880-91356/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91356/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91356/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 91357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-1	B-13-4'	Total/NA	Solid	5030B	
880-48759-2	B-14-4'	Total/NA	Solid	5030B	
880-48759-3	B-15-4'	Total/NA	Solid	5030B	
880-48759-4	B-16-4'	Total/NA	Solid	5030B	
880-48759-5	B-17-4'	Total/NA	Solid	5030B	
880-48759-6	B-18-4'	Total/NA	Solid	5030B	
880-48759-7	B-19-4'	Total/NA	Solid	5030B	
880-48759-8	B-20-4'	Total/NA	Solid	5030B	
880-48759-9	B-21-4'	Total/NA	Solid	5030B	
880-48759-10	B-22-4'	Total/NA	Solid	5030B	
880-48759-11	B-23-4'	Total/NA	Solid	5030B	
880-48759-12	B-7-4'	Total/NA	Solid	5030B	
880-48759-13	B-24-4'	Total/NA	Solid	5030B	
880-48759-14	B-25-4'	Total/NA	Solid	5030B	
880-48759-15	B-26-4'	Total/NA	Solid	5030B	
880-48759-16	B-27-4'	Total/NA	Solid	5030B	
880-48759-17	B-28-4'	Total/NA	Solid	5030B	
880-48759-18	B-29-4'	Total/NA	Solid	5030B	
880-48759-19	B-30-4'	Total/NA	Solid	5030B	
880-48759-20	B-31-4'	Total/NA	Solid	5030B	
MB 880-91357/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91357/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91357/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-48759-1 MS	B-13-4'	Total/NA	Solid	5030B	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 91357 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-1 MSD	B-13-4'	Total/NA	Solid	5030B	

Prep Batch: 91358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-21	B-32-4'	Total/NA	Solid	5030B	
880-48759-22	B-33-4'	Total/NA	Solid	5030B	
880-48759-23	B-34-4'	Total/NA	Solid	5030B	
880-48759-24	B-35-4'	Total/NA	Solid	5030B	
880-48759-25	B-36-4'	Total/NA	Solid	5030B	
880-48759-26	B-37-4'	Total/NA	Solid	5030B	
880-48759-27	B-38-4'	Total/NA	Solid	5030B	
880-48759-28	B-39-4'	Total/NA	Solid	5030B	
880-48759-29	B-40-4'	Total/NA	Solid	5030B	
880-48759-30	B-41-4'	Total/NA	Solid	5030B	
880-48759-31	B-42-4'	Total/NA	Solid	5030B	
880-48759-32	B-43-4'	Total/NA	Solid	5030B	
880-48759-33	B-44-4'	Total/NA	Solid	5030B	
880-48759-34	B-45-4'	Total/NA	Solid	5030B	
880-48759-35	B-46-4'	Total/NA	Solid	5030B	
880-48759-36	B-47-4'	Total/NA	Solid	5030B	
880-48759-37	B-48-4'	Total/NA	Solid	5030B	
880-48759-38	B-49-4'	Total/NA	Solid	5030B	
880-48759-39	B-50-4'	Total/NA	Solid	5030B	
880-48759-40	B-51-4'	Total/NA	Solid	5030B	
MB 880-91358/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91358/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91358/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-48759-21 MS	B-32-4'	Total/NA	Solid	5030B	
880-48759-21 MSD	B-32-4'	Total/NA	Solid	5030B	

Analysis Batch: 91392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-1	B-13-4'	Total/NA	Solid	8021B	91357
880-48759-2	B-14-4'	Total/NA	Solid	8021B	91357
880-48759-3	B-15-4'	Total/NA	Solid	8021B	91357
880-48759-4	B-16-4'	Total/NA	Solid	8021B	91357
880-48759-5	B-17-4'	Total/NA	Solid	8021B	91357
880-48759-6	B-18-4'	Total/NA	Solid	8021B	91357
880-48759-7	B-19-4'	Total/NA	Solid	8021B	91357
880-48759-8	B-20-4'	Total/NA	Solid	8021B	91357
880-48759-9	B-21-4'	Total/NA	Solid	8021B	91357
880-48759-10	B-22-4'	Total/NA	Solid	8021B	91357
880-48759-11	B-23-4'	Total/NA	Solid	8021B	91357
880-48759-12	B-7-4'	Total/NA	Solid	8021B	91357
880-48759-13	B-24-4'	Total/NA	Solid	8021B	91357
880-48759-14	B-25-4'	Total/NA	Solid	8021B	91357
880-48759-15	B-26-4'	Total/NA	Solid	8021B	91357
880-48759-16	B-27-4'	Total/NA	Solid	8021B	91357
880-48759-17	B-28-4'	Total/NA	Solid	8021B	91357
880-48759-18	B-29-4'	Total/NA	Solid	8021B	91357
880-48759-19	B-30-4'	Total/NA	Solid	8021B	91357

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 91392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-20	B-31-4'	Total/NA	Solid	8021B	91357
880-48759-21	B-32-4'	Total/NA	Solid	8021B	91358
880-48759-22	B-33-4'	Total/NA	Solid	8021B	91358
880-48759-23	B-34-4'	Total/NA	Solid	8021B	91358
880-48759-24	B-35-4'	Total/NA	Solid	8021B	91358
880-48759-25	B-36-4'	Total/NA	Solid	8021B	91358
880-48759-26	B-37-4'	Total/NA	Solid	8021B	91358
880-48759-27	B-38-4'	Total/NA	Solid	8021B	91358
880-48759-28	B-39-4'	Total/NA	Solid	8021B	91358
880-48759-29	B-40-4'	Total/NA	Solid	8021B	91358
880-48759-30	B-41-4'	Total/NA	Solid	8021B	91358
880-48759-31	B-42-4'	Total/NA	Solid	8021B	91358
880-48759-32	B-43-4'	Total/NA	Solid	8021B	91358
880-48759-33	B-44-4'	Total/NA	Solid	8021B	91358
880-48759-34	B-45-4'	Total/NA	Solid	8021B	91358
880-48759-35	B-46-4'	Total/NA	Solid	8021B	91358
880-48759-36	B-47-4'	Total/NA	Solid	8021B	91358
880-48759-37	B-48-4'	Total/NA	Solid	8021B	91358
880-48759-38	B-49-4'	Total/NA	Solid	8021B	91358
880-48759-39	B-50-4'	Total/NA	Solid	8021B	91358
880-48759-40	B-51-4'	Total/NA	Solid	8021B	91358
MB 880-91357/5-A	Method Blank	Total/NA	Solid	8021B	91357
MB 880-91358/5-A	Method Blank	Total/NA	Solid	8021B	91358
LCS 880-91357/1-A	Lab Control Sample	Total/NA	Solid	8021B	91357
LCS 880-91358/1-A	Lab Control Sample	Total/NA	Solid	8021B	91358
LCSD 880-91357/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91357
LCSD 880-91358/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91358
880-48759-1 MS	B-13-4'	Total/NA	Solid	8021B	91357
880-48759-1 MSD	B-13-4'	Total/NA	Solid	8021B	91357
880-48759-21 MS	B-32-4'	Total/NA	Solid	8021B	91358
880-48759-21 MSD	B-32-4'	Total/NA	Solid	8021B	91358

Analysis Batch: 91418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-41	B-52-4'	Total/NA	Solid	8021B	91356
880-48759-42	B-53-4'	Total/NA	Solid	8021B	91356
880-48759-43	B-54-4'	Total/NA	Solid	8021B	91356
880-48759-44	B-55-4'	Total/NA	Solid	8021B	91356
880-48759-45	B-56-4'	Total/NA	Solid	8021B	91356
880-48759-46	B-57-4'	Total/NA	Solid	8021B	91356
880-48759-47	B-58-4'	Total/NA	Solid	8021B	91356
880-48759-48	B-59-4'	Total/NA	Solid	8021B	91356
880-48759-49	B-60-4'	Total/NA	Solid	8021B	91356
880-48759-50	B-61-4'	Total/NA	Solid	8021B	91356
MB 880-91356/5-A	Method Blank	Total/NA	Solid	8021B	91356
LCS 880-91356/1-A	Lab Control Sample	Total/NA	Solid	8021B	91356
LCSD 880-91356/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91356

Analysis Batch: 91420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-51	B-62-4'	Total/NA	Solid	8021B	91311

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 91420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-91227/5-A	Method Blank	Total/NA	Solid	8021B	91227
MB 880-91311/5-A	Method Blank	Total/NA	Solid	8021B	91311
LCS 880-91311/1-A	Lab Control Sample	Total/NA	Solid	8021B	91311
LCSD 880-91311/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91311

Analysis Batch: 91474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-1	B-13-4'	Total/NA	Solid	Total BTEX	
880-48759-2	B-14-4'	Total/NA	Solid	Total BTEX	
880-48759-3	B-15-4'	Total/NA	Solid	Total BTEX	
880-48759-4	B-16-4'	Total/NA	Solid	Total BTEX	
880-48759-5	B-17-4'	Total/NA	Solid	Total BTEX	
880-48759-6	B-18-4'	Total/NA	Solid	Total BTEX	
880-48759-7	B-19-4'	Total/NA	Solid	Total BTEX	
880-48759-8	B-20-4'	Total/NA	Solid	Total BTEX	
880-48759-9	B-21-4'	Total/NA	Solid	Total BTEX	
880-48759-10	B-22-4'	Total/NA	Solid	Total BTEX	
880-48759-11	B-23-4'	Total/NA	Solid	Total BTEX	
880-48759-12	B-7-4'	Total/NA	Solid	Total BTEX	
880-48759-13	B-24-4'	Total/NA	Solid	Total BTEX	
880-48759-14	B-25-4'	Total/NA	Solid	Total BTEX	
880-48759-15	B-26-4'	Total/NA	Solid	Total BTEX	
880-48759-16	B-27-4'	Total/NA	Solid	Total BTEX	
880-48759-17	B-28-4'	Total/NA	Solid	Total BTEX	
880-48759-18	B-29-4'	Total/NA	Solid	Total BTEX	
880-48759-19	B-30-4'	Total/NA	Solid	Total BTEX	
880-48759-20	B-31-4'	Total/NA	Solid	Total BTEX	
880-48759-21	B-32-4'	Total/NA	Solid	Total BTEX	
880-48759-22	B-33-4'	Total/NA	Solid	Total BTEX	
880-48759-23	B-34-4'	Total/NA	Solid	Total BTEX	
880-48759-24	B-35-4'	Total/NA	Solid	Total BTEX	
880-48759-25	B-36-4'	Total/NA	Solid	Total BTEX	
880-48759-26	B-37-4'	Total/NA	Solid	Total BTEX	
880-48759-27	B-38-4'	Total/NA	Solid	Total BTEX	
880-48759-28	B-39-4'	Total/NA	Solid	Total BTEX	
880-48759-29	B-40-4'	Total/NA	Solid	Total BTEX	
880-48759-30	B-41-4'	Total/NA	Solid	Total BTEX	
880-48759-31	B-42-4'	Total/NA	Solid	Total BTEX	
880-48759-32	B-43-4'	Total/NA	Solid	Total BTEX	
880-48759-33	B-44-4'	Total/NA	Solid	Total BTEX	
880-48759-34	B-45-4'	Total/NA	Solid	Total BTEX	
880-48759-35	B-46-4'	Total/NA	Solid	Total BTEX	
880-48759-36	B-47-4'	Total/NA	Solid	Total BTEX	
880-48759-37	B-48-4'	Total/NA	Solid	Total BTEX	
880-48759-38	B-49-4'	Total/NA	Solid	Total BTEX	
880-48759-39	B-50-4'	Total/NA	Solid	Total BTEX	
880-48759-40	B-51-4'	Total/NA	Solid	Total BTEX	
880-48759-41	B-52-4'	Total/NA	Solid	Total BTEX	
880-48759-42	B-53-4'	Total/NA	Solid	Total BTEX	
880-48759-43	B-54-4'	Total/NA	Solid	Total BTEX	
880-48759-44	B-55-4'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 91474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-45	B-56-4'	Total/NA	Solid	Total BTEX	
880-48759-46	B-57-4'	Total/NA	Solid	Total BTEX	
880-48759-47	B-58-4'	Total/NA	Solid	Total BTEX	
880-48759-48	B-59-4'	Total/NA	Solid	Total BTEX	
880-48759-49	B-60-4'	Total/NA	Solid	Total BTEX	
880-48759-50	B-61-4'	Total/NA	Solid	Total BTEX	
880-48759-51	B-62-4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 91401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-1	B-13-4'	Total/NA	Solid	8015NM Prep	
880-48759-2	B-14-4'	Total/NA	Solid	8015NM Prep	
880-48759-3	B-15-4'	Total/NA	Solid	8015NM Prep	
880-48759-4	B-16-4'	Total/NA	Solid	8015NM Prep	
880-48759-5	B-17-4'	Total/NA	Solid	8015NM Prep	
880-48759-6	B-18-4'	Total/NA	Solid	8015NM Prep	
880-48759-7	B-19-4'	Total/NA	Solid	8015NM Prep	
880-48759-8	B-20-4'	Total/NA	Solid	8015NM Prep	
880-48759-9	B-21-4'	Total/NA	Solid	8015NM Prep	
880-48759-10	B-22-4'	Total/NA	Solid	8015NM Prep	
880-48759-11	B-23-4'	Total/NA	Solid	8015NM Prep	
880-48759-12	B-7-4'	Total/NA	Solid	8015NM Prep	
880-48759-13	B-24-4'	Total/NA	Solid	8015NM Prep	
880-48759-14	B-25-4'	Total/NA	Solid	8015NM Prep	
880-48759-15	B-26-4'	Total/NA	Solid	8015NM Prep	
880-48759-16	B-27-4'	Total/NA	Solid	8015NM Prep	
880-48759-17	B-28-4'	Total/NA	Solid	8015NM Prep	
880-48759-18	B-29-4'	Total/NA	Solid	8015NM Prep	
880-48759-19	B-30-4'	Total/NA	Solid	8015NM Prep	
880-48759-20	B-31-4'	Total/NA	Solid	8015NM Prep	
MB 880-91401/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91401/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91401/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-48759-1 MS	B-13-4'	Total/NA	Solid	8015NM Prep	
880-48759-1 MSD	B-13-4'	Total/NA	Solid	8015NM Prep	

Prep Batch: 91402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-21	B-32-4'	Total/NA	Solid	8015NM Prep	
880-48759-22	B-33-4'	Total/NA	Solid	8015NM Prep	
880-48759-23	B-34-4'	Total/NA	Solid	8015NM Prep	
880-48759-24	B-35-4'	Total/NA	Solid	8015NM Prep	
880-48759-25	B-36-4'	Total/NA	Solid	8015NM Prep	
880-48759-26	B-37-4'	Total/NA	Solid	8015NM Prep	
880-48759-27	B-38-4'	Total/NA	Solid	8015NM Prep	
880-48759-28	B-39-4'	Total/NA	Solid	8015NM Prep	
880-48759-29	B-40-4'	Total/NA	Solid	8015NM Prep	
880-48759-30	B-41-4'	Total/NA	Solid	8015NM Prep	
880-48759-31	B-42-4'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 91402 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-32	B-43-4'	Total/NA	Solid	8015NM Prep	
880-48759-33	B-44-4'	Total/NA	Solid	8015NM Prep	
880-48759-34	B-45-4'	Total/NA	Solid	8015NM Prep	
880-48759-35	B-46-4'	Total/NA	Solid	8015NM Prep	
880-48759-36	B-47-4'	Total/NA	Solid	8015NM Prep	
880-48759-37	B-48-4'	Total/NA	Solid	8015NM Prep	
880-48759-38	B-49-4'	Total/NA	Solid	8015NM Prep	
880-48759-39	B-50-4'	Total/NA	Solid	8015NM Prep	
880-48759-40	B-51-4'	Total/NA	Solid	8015NM Prep	
MB 880-91402/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91402/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91402/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-48759-21 MS	B-32-4'	Total/NA	Solid	8015NM Prep	
880-48759-21 MSD	B-32-4'	Total/NA	Solid	8015NM Prep	

Prep Batch: 91403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-41	B-52-4'	Total/NA	Solid	8015NM Prep	
880-48759-42	B-53-4'	Total/NA	Solid	8015NM Prep	
880-48759-43	B-54-4'	Total/NA	Solid	8015NM Prep	
880-48759-44	B-55-4'	Total/NA	Solid	8015NM Prep	
880-48759-45	B-56-4'	Total/NA	Solid	8015NM Prep	
880-48759-46	B-57-4'	Total/NA	Solid	8015NM Prep	
880-48759-47	B-58-4'	Total/NA	Solid	8015NM Prep	
880-48759-48	B-59-4'	Total/NA	Solid	8015NM Prep	
880-48759-49	B-60-4'	Total/NA	Solid	8015NM Prep	
880-48759-50	B-61-4'	Total/NA	Solid	8015NM Prep	
880-48759-51	B-62-4'	Total/NA	Solid	8015NM Prep	
MB 880-91403/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91403/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 91406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-41	B-52-4'	Total/NA	Solid	8015B NM	91403
880-48759-42	B-53-4'	Total/NA	Solid	8015B NM	91403
880-48759-43	B-54-4'	Total/NA	Solid	8015B NM	91403
880-48759-44	B-55-4'	Total/NA	Solid	8015B NM	91403
880-48759-45	B-56-4'	Total/NA	Solid	8015B NM	91403
880-48759-46	B-57-4'	Total/NA	Solid	8015B NM	91403
880-48759-47	B-58-4'	Total/NA	Solid	8015B NM	91403
880-48759-48	B-59-4'	Total/NA	Solid	8015B NM	91403
880-48759-49	B-60-4'	Total/NA	Solid	8015B NM	91403
880-48759-50	B-61-4'	Total/NA	Solid	8015B NM	91403
880-48759-51	B-62-4'	Total/NA	Solid	8015B NM	91403
MB 880-91403/1-A	Method Blank	Total/NA	Solid	8015B NM	91403
LCS 880-91403/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91403
LCSD 880-91403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91403

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 91459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-1	B-13-4'	Total/NA	Solid	8015 NM	
880-48759-2	B-14-4'	Total/NA	Solid	8015 NM	
880-48759-3	B-15-4'	Total/NA	Solid	8015 NM	
880-48759-4	B-16-4'	Total/NA	Solid	8015 NM	
880-48759-5	B-17-4'	Total/NA	Solid	8015 NM	
880-48759-6	B-18-4'	Total/NA	Solid	8015 NM	
880-48759-7	B-19-4'	Total/NA	Solid	8015 NM	
880-48759-8	B-20-4'	Total/NA	Solid	8015 NM	
880-48759-9	B-21-4'	Total/NA	Solid	8015 NM	
880-48759-10	B-22-4'	Total/NA	Solid	8015 NM	
880-48759-11	B-23-4'	Total/NA	Solid	8015 NM	
880-48759-12	B-7-4'	Total/NA	Solid	8015 NM	
880-48759-13	B-24-4'	Total/NA	Solid	8015 NM	
880-48759-14	B-25-4'	Total/NA	Solid	8015 NM	
880-48759-15	B-26-4'	Total/NA	Solid	8015 NM	
880-48759-16	B-27-4'	Total/NA	Solid	8015 NM	
880-48759-17	B-28-4'	Total/NA	Solid	8015 NM	
880-48759-18	B-29-4'	Total/NA	Solid	8015 NM	
880-48759-19	B-30-4'	Total/NA	Solid	8015 NM	
880-48759-20	B-31-4'	Total/NA	Solid	8015 NM	
880-48759-21	B-32-4'	Total/NA	Solid	8015 NM	
880-48759-22	B-33-4'	Total/NA	Solid	8015 NM	
880-48759-23	B-34-4'	Total/NA	Solid	8015 NM	
880-48759-24	B-35-4'	Total/NA	Solid	8015 NM	
880-48759-25	B-36-4'	Total/NA	Solid	8015 NM	
880-48759-26	B-37-4'	Total/NA	Solid	8015 NM	
880-48759-27	B-38-4'	Total/NA	Solid	8015 NM	
880-48759-28	B-39-4'	Total/NA	Solid	8015 NM	
880-48759-29	B-40-4'	Total/NA	Solid	8015 NM	
880-48759-30	B-41-4'	Total/NA	Solid	8015 NM	
880-48759-31	B-42-4'	Total/NA	Solid	8015 NM	
880-48759-32	B-43-4'	Total/NA	Solid	8015 NM	
880-48759-33	B-44-4'	Total/NA	Solid	8015 NM	
880-48759-34	B-45-4'	Total/NA	Solid	8015 NM	
880-48759-35	B-46-4'	Total/NA	Solid	8015 NM	
880-48759-36	B-47-4'	Total/NA	Solid	8015 NM	
880-48759-37	B-48-4'	Total/NA	Solid	8015 NM	
880-48759-38	B-49-4'	Total/NA	Solid	8015 NM	
880-48759-39	B-50-4'	Total/NA	Solid	8015 NM	
880-48759-40	B-51-4'	Total/NA	Solid	8015 NM	
880-48759-41	B-52-4'	Total/NA	Solid	8015 NM	
880-48759-42	B-53-4'	Total/NA	Solid	8015 NM	
880-48759-43	B-54-4'	Total/NA	Solid	8015 NM	
880-48759-44	B-55-4'	Total/NA	Solid	8015 NM	
880-48759-45	B-56-4'	Total/NA	Solid	8015 NM	
880-48759-46	B-57-4'	Total/NA	Solid	8015 NM	
880-48759-47	B-58-4'	Total/NA	Solid	8015 NM	
880-48759-48	B-59-4'	Total/NA	Solid	8015 NM	
880-48759-49	B-60-4'	Total/NA	Solid	8015 NM	
880-48759-50	B-61-4'	Total/NA	Solid	8015 NM	
880-48759-51	B-62-4'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 91465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-1	B-13-4'	Total/NA	Solid	8015B NM	91401
880-48759-2	B-14-4'	Total/NA	Solid	8015B NM	91401
880-48759-3	B-15-4'	Total/NA	Solid	8015B NM	91401
880-48759-4	B-16-4'	Total/NA	Solid	8015B NM	91401
880-48759-5	B-17-4'	Total/NA	Solid	8015B NM	91401
880-48759-6	B-18-4'	Total/NA	Solid	8015B NM	91401
880-48759-7	B-19-4'	Total/NA	Solid	8015B NM	91401
880-48759-8	B-20-4'	Total/NA	Solid	8015B NM	91401
880-48759-9	B-21-4'	Total/NA	Solid	8015B NM	91401
880-48759-10	B-22-4'	Total/NA	Solid	8015B NM	91401
880-48759-11	B-23-4'	Total/NA	Solid	8015B NM	91401
880-48759-12	B-7-4'	Total/NA	Solid	8015B NM	91401
880-48759-13	B-24-4'	Total/NA	Solid	8015B NM	91401
880-48759-14	B-25-4'	Total/NA	Solid	8015B NM	91401
880-48759-15	B-26-4'	Total/NA	Solid	8015B NM	91401
880-48759-16	B-27-4'	Total/NA	Solid	8015B NM	91401
880-48759-17	B-28-4'	Total/NA	Solid	8015B NM	91401
880-48759-18	B-29-4'	Total/NA	Solid	8015B NM	91401
880-48759-19	B-30-4'	Total/NA	Solid	8015B NM	91401
880-48759-20	B-31-4'	Total/NA	Solid	8015B NM	91401
MB 880-91401/1-A	Method Blank	Total/NA	Solid	8015B NM	91401
LCS 880-91401/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91401
LCSD 880-91401/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91401
880-48759-1 MS	B-13-4'	Total/NA	Solid	8015B NM	91401
880-48759-1 MSD	B-13-4'	Total/NA	Solid	8015B NM	91401

Analysis Batch: 91468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-21	B-32-4'	Total/NA	Solid	8015B NM	91402
880-48759-22	B-33-4'	Total/NA	Solid	8015B NM	91402
880-48759-23	B-34-4'	Total/NA	Solid	8015B NM	91402
880-48759-24	B-35-4'	Total/NA	Solid	8015B NM	91402
880-48759-25	B-36-4'	Total/NA	Solid	8015B NM	91402
880-48759-26	B-37-4'	Total/NA	Solid	8015B NM	91402
880-48759-27	B-38-4'	Total/NA	Solid	8015B NM	91402
880-48759-28	B-39-4'	Total/NA	Solid	8015B NM	91402
880-48759-29	B-40-4'	Total/NA	Solid	8015B NM	91402
880-48759-30	B-41-4'	Total/NA	Solid	8015B NM	91402
880-48759-31	B-42-4'	Total/NA	Solid	8015B NM	91402
880-48759-32	B-43-4'	Total/NA	Solid	8015B NM	91402
880-48759-33	B-44-4'	Total/NA	Solid	8015B NM	91402
880-48759-34	B-45-4'	Total/NA	Solid	8015B NM	91402
880-48759-35	B-46-4'	Total/NA	Solid	8015B NM	91402
880-48759-36	B-47-4'	Total/NA	Solid	8015B NM	91402
880-48759-37	B-48-4'	Total/NA	Solid	8015B NM	91402
880-48759-38	B-49-4'	Total/NA	Solid	8015B NM	91402
880-48759-39	B-50-4'	Total/NA	Solid	8015B NM	91402
880-48759-40	B-51-4'	Total/NA	Solid	8015B NM	91402
MB 880-91402/1-A	Method Blank	Total/NA	Solid	8015B NM	91402
LCS 880-91402/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91402
LCSD 880-91402/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91402

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 91468 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-21 MS	B-32-4'	Total/NA	Solid	8015B NM	91402
880-48759-21 MSD	B-32-4'	Total/NA	Solid	8015B NM	91402

HPLC/IC

Leach Batch: 91353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-1	B-13-4'	Soluble	Solid	DI Leach	
880-48759-2	B-14-4'	Soluble	Solid	DI Leach	
880-48759-3	B-15-4'	Soluble	Solid	DI Leach	
880-48759-4	B-16-4'	Soluble	Solid	DI Leach	
MB 880-91353/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91353/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91353/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 91354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-5	B-17-4'	Soluble	Solid	DI Leach	
880-48759-6	B-18-4'	Soluble	Solid	DI Leach	
880-48759-7	B-19-4'	Soluble	Solid	DI Leach	
880-48759-8	B-20-4'	Soluble	Solid	DI Leach	
880-48759-9	B-21-4'	Soluble	Solid	DI Leach	
880-48759-10	B-22-4'	Soluble	Solid	DI Leach	
880-48759-11	B-23-4'	Soluble	Solid	DI Leach	
880-48759-12	B-7-4'	Soluble	Solid	DI Leach	
880-48759-13	B-24-4'	Soluble	Solid	DI Leach	
880-48759-14	B-25-4'	Soluble	Solid	DI Leach	
880-48759-15	B-26-4'	Soluble	Solid	DI Leach	
880-48759-16	B-27-4'	Soluble	Solid	DI Leach	
880-48759-17	B-28-4'	Soluble	Solid	DI Leach	
880-48759-18	B-29-4'	Soluble	Solid	DI Leach	
880-48759-19	B-30-4'	Soluble	Solid	DI Leach	
880-48759-20	B-31-4'	Soluble	Solid	DI Leach	
880-48759-21	B-32-4'	Soluble	Solid	DI Leach	
880-48759-22	B-33-4'	Soluble	Solid	DI Leach	
880-48759-23	B-34-4'	Soluble	Solid	DI Leach	
880-48759-24	B-35-4'	Soluble	Solid	DI Leach	
MB 880-91354/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91354/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91354/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48759-5 MS	B-17-4'	Soluble	Solid	DI Leach	
880-48759-5 MSD	B-17-4'	Soluble	Solid	DI Leach	
880-48759-15 MS	B-26-4'	Soluble	Solid	DI Leach	
880-48759-15 MSD	B-26-4'	Soluble	Solid	DI Leach	

Leach Batch: 91355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-25	B-36-4'	Soluble	Solid	DI Leach	
880-48759-26	B-37-4'	Soluble	Solid	DI Leach	
880-48759-27	B-38-4'	Soluble	Solid	DI Leach	
880-48759-28	B-39-4'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 91355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-29	B-40-4'	Soluble	Solid	DI Leach	
880-48759-30	B-41-4'	Soluble	Solid	DI Leach	
880-48759-31	B-42-4'	Soluble	Solid	DI Leach	
880-48759-32	B-43-4'	Soluble	Solid	DI Leach	
880-48759-33	B-44-4'	Soluble	Solid	DI Leach	
880-48759-34	B-45-4'	Soluble	Solid	DI Leach	
880-48759-35	B-46-4'	Soluble	Solid	DI Leach	
880-48759-36	B-47-4'	Soluble	Solid	DI Leach	
880-48759-37	B-48-4'	Soluble	Solid	DI Leach	
880-48759-38	B-49-4'	Soluble	Solid	DI Leach	
880-48759-39	B-50-4'	Soluble	Solid	DI Leach	
880-48759-40	B-51-4'	Soluble	Solid	DI Leach	
880-48759-41	B-52-4'	Soluble	Solid	DI Leach	
880-48759-42	B-53-4'	Soluble	Solid	DI Leach	
880-48759-43	B-54-4'	Soluble	Solid	DI Leach	
880-48759-44	B-55-4'	Soluble	Solid	DI Leach	
MB 880-91355/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91355/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91355/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48759-25 MS	B-36-4'	Soluble	Solid	DI Leach	
880-48759-25 MSD	B-36-4'	Soluble	Solid	DI Leach	
880-48759-35 MS	B-46-4'	Soluble	Solid	DI Leach	
880-48759-35 MSD	B-46-4'	Soluble	Solid	DI Leach	

Analysis Batch: 91359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-1	B-13-4'	Soluble	Solid	300.0	91353
880-48759-2	B-14-4'	Soluble	Solid	300.0	91353
880-48759-3	B-15-4'	Soluble	Solid	300.0	91353
880-48759-4	B-16-4'	Soluble	Solid	300.0	91353
MB 880-91353/1-A	Method Blank	Soluble	Solid	300.0	91353
LCS 880-91353/2-A	Lab Control Sample	Soluble	Solid	300.0	91353
LCSD 880-91353/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91353

Analysis Batch: 91360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-5	B-17-4'	Soluble	Solid	300.0	91354
880-48759-6	B-18-4'	Soluble	Solid	300.0	91354
880-48759-7	B-19-4'	Soluble	Solid	300.0	91354
880-48759-8	B-20-4'	Soluble	Solid	300.0	91354
880-48759-9	B-21-4'	Soluble	Solid	300.0	91354
880-48759-10	B-22-4'	Soluble	Solid	300.0	91354
880-48759-11	B-23-4'	Soluble	Solid	300.0	91354
880-48759-12	B-7-4'	Soluble	Solid	300.0	91354
880-48759-13	B-24-4'	Soluble	Solid	300.0	91354
880-48759-14	B-25-4'	Soluble	Solid	300.0	91354
880-48759-15	B-26-4'	Soluble	Solid	300.0	91354
880-48759-16	B-27-4'	Soluble	Solid	300.0	91354
880-48759-17	B-28-4'	Soluble	Solid	300.0	91354
880-48759-18	B-29-4'	Soluble	Solid	300.0	91354
880-48759-19	B-30-4'	Soluble	Solid	300.0	91354

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 91360 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-20	B-31-4'	Soluble	Solid	300.0	91354
880-48759-21	B-32-4'	Soluble	Solid	300.0	91354
880-48759-22	B-33-4'	Soluble	Solid	300.0	91354
880-48759-23	B-34-4'	Soluble	Solid	300.0	91354
880-48759-24	B-35-4'	Soluble	Solid	300.0	91354
MB 880-91354/1-A	Method Blank	Soluble	Solid	300.0	91354
LCS 880-91354/2-A	Lab Control Sample	Soluble	Solid	300.0	91354
LCSD 880-91354/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91354
880-48759-5 MS	B-17-4'	Soluble	Solid	300.0	91354
880-48759-5 MSD	B-17-4'	Soluble	Solid	300.0	91354
880-48759-15 MS	B-26-4'	Soluble	Solid	300.0	91354
880-48759-15 MSD	B-26-4'	Soluble	Solid	300.0	91354

Analysis Batch: 91363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-25	B-36-4'	Soluble	Solid	300.0	91355
880-48759-26	B-37-4'	Soluble	Solid	300.0	91355
880-48759-27	B-38-4'	Soluble	Solid	300.0	91355
880-48759-28	B-39-4'	Soluble	Solid	300.0	91355
880-48759-29	B-40-4'	Soluble	Solid	300.0	91355
880-48759-30	B-41-4'	Soluble	Solid	300.0	91355
880-48759-31	B-42-4'	Soluble	Solid	300.0	91355
880-48759-32	B-43-4'	Soluble	Solid	300.0	91355
880-48759-33	B-44-4'	Soluble	Solid	300.0	91355
880-48759-34	B-45-4'	Soluble	Solid	300.0	91355
880-48759-35	B-46-4'	Soluble	Solid	300.0	91355
880-48759-36	B-47-4'	Soluble	Solid	300.0	91355
880-48759-37	B-48-4'	Soluble	Solid	300.0	91355
880-48759-38	B-49-4'	Soluble	Solid	300.0	91355
880-48759-39	B-50-4'	Soluble	Solid	300.0	91355
880-48759-40	B-51-4'	Soluble	Solid	300.0	91355
880-48759-41	B-52-4'	Soluble	Solid	300.0	91355
880-48759-42	B-53-4'	Soluble	Solid	300.0	91355
880-48759-43	B-54-4'	Soluble	Solid	300.0	91355
880-48759-44	B-55-4'	Soluble	Solid	300.0	91355
MB 880-91355/1-A	Method Blank	Soluble	Solid	300.0	91355
LCS 880-91355/2-A	Lab Control Sample	Soluble	Solid	300.0	91355
LCSD 880-91355/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91355
880-48759-25 MS	B-36-4'	Soluble	Solid	300.0	91355
880-48759-25 MSD	B-36-4'	Soluble	Solid	300.0	91355
880-48759-35 MS	B-46-4'	Soluble	Solid	300.0	91355
880-48759-35 MSD	B-46-4'	Soluble	Solid	300.0	91355

Leach Batch: 91426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-45	B-56-4'	Soluble	Solid	DI Leach	
880-48759-46	B-57-4'	Soluble	Solid	DI Leach	
880-48759-47	B-58-4'	Soluble	Solid	DI Leach	
880-48759-48	B-59-4'	Soluble	Solid	DI Leach	
880-48759-49	B-60-4'	Soluble	Solid	DI Leach	
880-48759-50	B-61-4'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 91426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-51	B-62-4'	Soluble	Solid	DI Leach	
MB 880-91426/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91426/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91426/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 91437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48759-45	B-56-4'	Soluble	Solid	300.0	91426
880-48759-46	B-57-4'	Soluble	Solid	300.0	91426
880-48759-47	B-58-4'	Soluble	Solid	300.0	91426
880-48759-48	B-59-4'	Soluble	Solid	300.0	91426
880-48759-49	B-60-4'	Soluble	Solid	300.0	91426
880-48759-50	B-61-4'	Soluble	Solid	300.0	91426
880-48759-51	B-62-4'	Soluble	Solid	300.0	91426
MB 880-91426/1-A	Method Blank	Soluble	Solid	300.0	91426
LCS 880-91426/2-A	Lab Control Sample	Soluble	Solid	300.0	91426
LCSD 880-91426/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91426

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-13-4'
Date Collected: 09/18/24 09:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 15:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 15:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 14:00	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 19:01	CH	EET MID

Client Sample ID: B-14-4'
Date Collected: 09/18/24 09:05
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-2
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	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 16:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 16:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 14:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 14:44	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 19:08	CH	EET MID

Client Sample ID: B-15-4'
Date Collected: 09/18/24 09:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 16:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 16:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 14:59	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 19:15	CH	EET MID

Client Sample ID: B-16-4'
Date Collected: 09/18/24 09:15
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-4
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	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 16:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 16:56	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-16-4'
Date Collected: 09/18/24 09:15
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91459	09/23/24 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 15:13	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91353	09/20/24 13:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91359	09/20/24 19:21	CH	EET MID

Client Sample ID: B-17-4'
Date Collected: 09/18/24 09:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-5
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			5.02 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 17:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 15:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 15:28	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91360	09/20/24 20:15	CH	EET MID

Client Sample ID: B-18-4'
Date Collected: 09/18/24 09:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-6
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			5.03 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 15:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 15:44	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 20:35	CH	EET MID

Client Sample ID: B-19-4'
Date Collected: 09/18/24 09:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 17:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 17:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 15:58	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-19-4'
Date Collected: 09/18/24 09:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 20:42	CH	EET MID

Client Sample ID: B-20-4'
Date Collected: 09/18/24 09:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-8
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			4.99 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 18:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 18:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 16:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 16:13	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91360	09/20/24 20:48	CH	EET MID

Client Sample ID: B-21-4'
Date Collected: 09/18/24 09:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-9
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	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 18:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 16:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 16:28	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91360	09/20/24 20:55	CH	EET MID

Client Sample ID: B-22-4'
Date Collected: 09/18/24 09:45
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-10
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			4.99 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 18:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 16:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 16:43	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91360	09/20/24 21:15	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-23-4'
Date Collected: 09/18/24 09:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 20:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 20:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 17:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 17:13	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91360	09/20/24 21:22	CH	EET MID

Client Sample ID: B-7-4'
Date Collected: 09/18/24 09:55
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 20:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 17:28	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 21:28	CH	EET MID

Client Sample ID: B-24-4'
Date Collected: 09/18/24 10:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 21:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 21:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 17:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 17:43	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91360	09/20/24 21:35	CH	EET MID

Client Sample ID: B-25-4'
Date Collected: 09/18/24 10:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 21:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 21:22	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-25-4'
Date Collected: 09/18/24 10:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91459	09/23/24 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 17:58	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91360	09/20/24 21:42	CH	EET MID

Client Sample ID: B-26-4'
Date Collected: 09/18/24 10:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-15
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	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 21:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 21:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 18:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 18:13	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91360	09/20/24 21:48	CH	EET MID

Client Sample ID: B-27-4'
Date Collected: 09/18/24 10:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-16
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			5.05 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 22:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 22:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 18:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 18:27	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 22:08	CH	EET MID

Client Sample ID: B-28-4'
Date Collected: 09/18/24 10:45
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-17
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			5.03 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 22:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 22:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 18:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 18:42	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-28-4'
Date Collected: 09/18/24 10:45
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 22:15	CH	EET MID

Client Sample ID: B-29-4'
Date Collected: 09/18/24 10:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-18
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			5.01 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 22:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 22:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 18:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 18:57	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 22:35	CH	EET MID

Client Sample ID: B-30-4'
Date Collected: 09/18/24 10:55
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 23:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 23:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 19:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 19:11	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 22:42	CH	EET MID

Client Sample ID: B-31-4'
Date Collected: 09/18/24 11:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	91357	09/20/24 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/21/24 23:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/21/24 23:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 19:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91401	09/21/24 14:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91465	09/23/24 19:27	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 22:48	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-32-4'
Date Collected: 09/18/24 13:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 02:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 02:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 14:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 22:55	CH	EET MID

Client Sample ID: B-33-4'
Date Collected: 09/18/24 13:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-22
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			5.05 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 02:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 02:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 14:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 14:44	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 23:02	CH	EET MID

Client Sample ID: B-34-4'
Date Collected: 09/18/24 13:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-23
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			5.01 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 03:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 03:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 14:59	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 23:08	CH	EET MID

Client Sample ID: B-35-4'
Date Collected: 09/18/24 13:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-24
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			4.99 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 03:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 03:31	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-35-4'
Date Collected: 09/18/24 13:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91459	09/23/24 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 15:13	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91354	09/20/24 13:15	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91360	09/20/24 23:15	CH	EET MID

Client Sample ID: B-36-4'
Date Collected: 09/18/24 13:40
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-25
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			5.02 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 03:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 03:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 15:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 15:28	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/20/24 23:11	CH	EET MID

Client Sample ID: B-37-4'
Date Collected: 09/18/24 13:45
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 04:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 04:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 15:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 15:44	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/20/24 23:27	CH	EET MID

Client Sample ID: B-38-4'
Date Collected: 09/18/24 13:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 04:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 04:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 15:58	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-38-4'
Date Collected: 09/18/24 13:50
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/20/24 23:33	CH	EET MID

Client Sample ID: B-39-4'
Date Collected: 09/18/24 13:55
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 04:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 16:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 16:13	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91363	09/20/24 23:38	CH	EET MID

Client Sample ID: B-40-4'
Date Collected: 09/18/24 14:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-29
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	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 05:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 16:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 16:28	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/20/24 23:44	CH	EET MID

Client Sample ID: B-41-4'
Date Collected: 09/18/24 14:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-30
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			4.99 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 05:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 16:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 16:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91363	09/21/24 00:00	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-42-4'
Date Collected: 09/18/24 11:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-31
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			5.02 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 06:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 06:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 17:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 17:13	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 00:05	CH	EET MID

Client Sample ID: B-43-4'
Date Collected: 09/18/24 11:15
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-32
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			5.03 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 07:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 07:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 17:28	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91363	09/21/24 00:11	CH	EET MID

Client Sample ID: B-44-4'
Date Collected: 09/18/24 11:20
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-33
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			5.01 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 07:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 07:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 17:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 17:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91363	09/21/24 00:16	CH	EET MID

Client Sample ID: B-45-4'
Date Collected: 09/18/24 11:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-34
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			4.99 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 07:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 07:57	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-45-4'
Date Collected: 09/18/24 11:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91459	09/23/24 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 17:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 00:22	CH	EET MID

Client Sample ID: B-46-4'
Date Collected: 09/18/24 11:30
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-35
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			5.02 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 08:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 08:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 18:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 18:13	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 00:27	CH	EET MID

Client Sample ID: B-47-4'
Date Collected: 09/18/24 13:00
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-36
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			5.05 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 08:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 08:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 18:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 18:27	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 00:43	CH	EET MID

Client Sample ID: B-48-4'
Date Collected: 09/18/24 13:05
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-37
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			5.03 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 08:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 08:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 18:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 18:42	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-48-4'
Date Collected: 09/18/24 13:05
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 00:49	CH	EET MID

Client Sample ID: B-49-4'
Date Collected: 09/18/24 13:10
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-38
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			5.01 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 09:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 09:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 18:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 18:57	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 01:05	CH	EET MID

Client Sample ID: B-50-4'
Date Collected: 09/18/24 13:15
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-39
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			4.97 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 09:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 09:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 19:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 19:11	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 01:10	CH	EET MID

Client Sample ID: B-51-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	91358	09/20/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91392	09/22/24 10:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 10:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/23/24 19:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91402	09/21/24 15:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91468	09/23/24 19:27	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 01:16	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-52-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/22/24 23:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/22/24 23:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 20:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 20:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 01:21	CH	EET MID

Client Sample ID: B-53-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/23/24 00:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 00:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 20:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 20:40	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 01:26	CH	EET MID

Client Sample ID: B-54-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-43
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			5.01 g	5 mL	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/23/24 00:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 00:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 20:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 20:54	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 01:32	CH	EET MID

Client Sample ID: B-55-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-44
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/23/24 00:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 00:51	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-55-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91459	09/21/24 21:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 21:24	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91355	09/20/24 13:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91363	09/21/24 01:37	CH	EET MID

Client Sample ID: B-56-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-45
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/23/24 01:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 01:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 21:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 21:38	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91426	09/23/24 07:48	SA	EET MID
Soluble	Analysis	300.0		5			91437	09/23/24 09:50	CH	EET MID

Client Sample ID: B-57-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-46
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/23/24 01:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 01:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 21:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 21:53	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91426	09/23/24 07:48	SA	EET MID
Soluble	Analysis	300.0		1			91437	09/23/24 09:56	CH	EET MID

Client Sample ID: B-58-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-47
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/23/24 01:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 01:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 22:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 22:07	TKC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-58-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-47
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	91426	09/23/24 07:48	SA	EET MID
Soluble	Analysis	300.0		1			91437	09/23/24 10:12	CH	EET MID

Client Sample ID: B-59-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-48
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/23/24 02:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 02:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 22:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 22:22	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	91426	09/23/24 07:48	SA	EET MID
Soluble	Analysis	300.0		1			91437	09/23/24 10:17	CH	EET MID

Client Sample ID: B-60-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-49
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/23/24 02:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 02:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 22:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 22:36	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91426	09/23/24 07:48	SA	EET MID
Soluble	Analysis	300.0		5			91437	09/23/24 10:23	CH	EET MID

Client Sample ID: B-61-4'
Date Collected: 09/18/24 14:35
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-50
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	91356	09/20/24 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91418	09/23/24 02:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 02:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 22:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 22:50	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91426	09/23/24 07:48	SA	EET MID
Soluble	Analysis	300.0		5			91437	09/23/24 10:28	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Client Sample ID: B-62-4'
Date Collected: 09/18/24 15:25
Date Received: 09/20/24 11:00

Lab Sample ID: 880-48759-51
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	91311	09/20/24 13:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91420	09/23/24 06:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91474	09/23/24 06:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			91459	09/21/24 23:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	91403	09/21/24 15:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91406	09/21/24 23:04	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91426	09/23/24 07:48	SA	EET MID
Soluble	Analysis	300.0		1			91437	09/23/24 10:33	CH	EET MID

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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.
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: WLU 41

Job ID: 880-48759-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-48759-1	B-13-4'	Solid	09/18/24 09:00	09/20/24 11:00
880-48759-2	B-14-4'	Solid	09/18/24 09:05	09/20/24 11:00
880-48759-3	B-15-4'	Solid	09/18/24 09:10	09/20/24 11:00
880-48759-4	B-16-4'	Solid	09/18/24 09:15	09/20/24 11:00
880-48759-5	B-17-4'	Solid	09/18/24 09:20	09/20/24 11:00
880-48759-6	B-18-4'	Solid	09/18/24 09:25	09/20/24 11:00
880-48759-7	B-19-4'	Solid	09/18/24 09:30	09/20/24 11:00
880-48759-8	B-20-4'	Solid	09/18/24 09:35	09/20/24 11:00
880-48759-9	B-21-4'	Solid	09/18/24 09:40	09/20/24 11:00
880-48759-10	B-22-4'	Solid	09/18/24 09:45	09/20/24 11:00
880-48759-11	B-23-4'	Solid	09/18/24 09:50	09/20/24 11:00
880-48759-12	B-7-4'	Solid	09/18/24 09:55	09/20/24 11:00
880-48759-13	B-24-4'	Solid	09/18/24 10:00	09/20/24 11:00
880-48759-14	B-25-4'	Solid	09/18/24 10:30	09/20/24 11:00
880-48759-15	B-26-4'	Solid	09/18/24 10:35	09/20/24 11:00
880-48759-16	B-27-4'	Solid	09/18/24 10:40	09/20/24 11:00
880-48759-17	B-28-4'	Solid	09/18/24 10:45	09/20/24 11:00
880-48759-18	B-29-4'	Solid	09/18/24 10:50	09/20/24 11:00
880-48759-19	B-30-4'	Solid	09/18/24 10:55	09/20/24 11:00
880-48759-20	B-31-4'	Solid	09/18/24 11:00	09/20/24 11:00
880-48759-21	B-32-4'	Solid	09/18/24 13:20	09/20/24 11:00
880-48759-22	B-33-4'	Solid	09/18/24 13:25	09/20/24 11:00
880-48759-23	B-34-4'	Solid	09/18/24 13:30	09/20/24 11:00
880-48759-24	B-35-4'	Solid	09/18/24 13:35	09/20/24 11:00
880-48759-25	B-36-4'	Solid	09/18/24 13:40	09/20/24 11:00
880-48759-26	B-37-4'	Solid	09/18/24 13:45	09/20/24 11:00
880-48759-27	B-38-4'	Solid	09/18/24 13:50	09/20/24 11:00
880-48759-28	B-39-4'	Solid	09/18/24 13:55	09/20/24 11:00
880-48759-29	B-40-4'	Solid	09/18/24 14:00	09/20/24 11:00
880-48759-30	B-41-4'	Solid	09/18/24 14:30	09/20/24 11:00
880-48759-31	B-42-4'	Solid	09/18/24 11:10	09/20/24 11:00
880-48759-32	B-43-4'	Solid	09/18/24 11:15	09/20/24 11:00
880-48759-33	B-44-4'	Solid	09/18/24 11:20	09/20/24 11:00
880-48759-34	B-45-4'	Solid	09/18/24 11:25	09/20/24 11:00
880-48759-35	B-46-4'	Solid	09/18/24 11:30	09/20/24 11:00
880-48759-36	B-47-4'	Solid	09/18/24 13:00	09/20/24 11:00
880-48759-37	B-48-4'	Solid	09/18/24 13:05	09/20/24 11:00
880-48759-38	B-49-4'	Solid	09/18/24 13:10	09/20/24 11:00
880-48759-39	B-50-4'	Solid	09/18/24 13:15	09/20/24 11:00
880-48759-40	B-51-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-41	B-52-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-42	B-53-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-43	B-54-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-44	B-55-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-45	B-56-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-46	B-57-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-47	B-58-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-48	B-59-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-49	B-60-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-50	B-61-4'	Solid	09/18/24 14:35	09/20/24 11:00
880-48759-51	B-62-4'	Solid	09/18/24 15:25	09/20/24 11:00

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 880-48759 Chain of Custody

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Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Morgan.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	WLU 41	Turn Around	☐ Routine ☒ Rush 48 hr
Project Number:	30237085 task 00004	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Heath Boyd		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR9	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.9	
Total Containers:		Corrected Temperature:	1.8	

ANALYSIS REQUEST

Preservative Codes: None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cl- 300	8015 MOD_NM	8021B	Sample Comments
B-13-4'	S	9/18/24	900		C	1		X	X	X	
B-14-4'			905			1		X	X	X	
B-15-4'			910			1		X	X	X	
B-16-4'			915			1		X	X	X	
B-17-4'			920			1		X	X	X	
B-18-4'			925			1		X	X	X	
B-19-4'			930			1		X	X	X	
B-20-4'			935			1		X	X	X	
B-21-4'			940			1		X	X	X	
B-22-4'	X	X	945		X	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl 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
1	BCox	9/19/24 800	2		9/20 1180
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 759

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Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	WLU 41	Turn Around	
Project Number:	30137085 task 00004	☐ Routine ☒ Rush 48	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Heath Boyd	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cl 300	BTEX MOD_NM	8021B	Sample Comments
B-23-4'	S	9/18/24	950		C	1		X	X	X	
B-7-4'			955			1		X	X	X	
B-24-4'			1000			1		X	X	X	
B-25-4'			1030			1		X	X	X	
B-26-4'			1035			1		X	X	X	
B-27-4'			1040			1		X	X	X	
B-28-4'			1045			1		X	X	X	
B-29-4'			1050			1		X	X	X	
B-30-4'			1055			1		X	X	X	
B-31-4'	↓	↓	1100		↓	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl 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
1	BCox	9/19/24 800	2		9/20 1106
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 10/30/2024 9:04:02 AM
Received by OCD: 10/23/2024 1:19:31 PM

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 759

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Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	WLU 41	Turn Around	☐ Routine ☒ Rush 48
Project Number:	30237085 Task 00004	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Heath Boyd		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cl 300	8015 MOD - Xm	80213	Sample Comments
B-32-4'	S	9/18/24	1105		C	1		X	X	X	
B-33-4'			1110			1		X	X	X	
B-34-4'			1115			1		X	X	X	
B-35-4'			1120			1		X	X	X	
~~B-36-4'~~			~~1125~~			1		X	X	X	
B-37-4'			1130			1		X	X	X	
B-38-4'			1300			1		X	X	X	
B-39-4'			1305			1		X	X	X	
B-40-4			1310			1		X	X	X	
B-41-4'	X	X	1315		X	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1		9/19/24	2		9/20 1106
3			4		
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Chain of Custody

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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 759

www.xenco.com Page 4 of 6

Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	WLU 41	Turn Around	☐ Routine ☒ Rush 48
Project Number:	30237085 task 00004	Due Date:	
Project Location:	Leacounty, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Hector Boyer		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Cl 300	8015 mod_NM	8021B	Sample Comments
B-42-4'	S	9/18/24	1320		C	1	X	X	X	
B-43-4'			325			1	X	X	X	
B-44-4'			330			1	X	X	X	
B-45-4'			335			1	X	X	X	
B-46-4'			340			1	X	X	X	
B-47-4'			345			1	X	X	X	
B-48-4'			350			1	X	X	X	
B-49-4'			355			1	X	X	X	
B-50-4'			400			1	X	X	X	
B-51-4'	X	X	~~1405~~ 1430		X	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1		9/19/24 1100	2		9/20 1100
3			4		
5			6		

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 759

www.xenco.com Page 5 of 6

Project Manager:	Morgan Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	WLL 41	Turn Around	☐ Routine ☑ Rush 48
Project Number:	30237085 task 00004	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Heath Boyd		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cl 300	8015 Mod-Xn	8021B	Sample Comments
B-52-4'	S	9/18/24	1435		C	1		X	X	X	
B-53-4'						1		X	X	X	
B-54-4'						1		X	X	X	
B-55-4'						1		X	X	X	
~~B-56-4'~~						1		X	X	X	
B-57-4'						1		X	X	X	
B-58-4'						1		X	X	X	
B-59-4'						1		X	X	X	
B-60-4'						1		X	X	X	
B-61-4'						1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1		9/19/24 800	2		9/20 1100
3			4		
5			6		

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Chain of Custody

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
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Work Order No: 759

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Project Manager:	Douglas Jordan	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Work Order Comments

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

Project Name:	WLU 41	Turn Around	
Project Number:	30237085 task 00004	☐ Routine ☑ Rush 48	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Heath Doyal	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cl 300.0	8015 MOD_NM	8021B	Sample Comments
B-62-4'	S	9/18/24	1525		C	1		X	X	X	

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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1		9/19/24 800	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-48759-1
SDG Number: Lea County, NM

Login Number: 48759
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis U.S., Inc.
98 San Jacinto Blvd.
Suite 414
Austin, Texas 78701

Generated 9/26/2024 2:34:35 PM

JOB DESCRIPTION

WLU 41
Lea County, NM

JOB NUMBER

880-48886-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

Eurofins Midland

Job Notes

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

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

Authorization

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

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Laboratory Job ID: 880-48886-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 880-48886-1
Project/Site: WLU 41 SDG: Lea 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, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arcadis U.S., Inc.
Project: WLU 41

Job ID: 880-48886-1

Job ID: 880-48886-1 Eurofins Midland

Job Narrative
880-48886-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 9/24/2024 1:20 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 3.3°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-63-4' (880-48886-1), B-64-4' (880-48886-2), B-65-4' (880-48886-3), B-66-4' (880-48886-4), B-67-4' (880-48886-5), B-68-4' (880-48886-6), B-69-4' (880-48886-7), B-70-4' (880-48886-8), B-71-4' (880-48886-9), B-74-4' (880-48886-10), B-75-4' (880-48886-11), B-76-4' (880-48886-12), B-77-4' (880-48886-13), B-78-4' (880-48886-14), B-79-4' (880-48886-15), B-80-4' (880-48886-16), B-81-4' (880-48886-17), B-82-4' (880-48886-18), B-83-4' (880-48886-19), B-84-4' (880-48886-20), B-85-4' (880-48886-21), B-86-4' (880-48886-22), B-87-4' (880-48886-23), B-88-4' (880-48886-24), B-89-4' (880-48886-25), B-90-4' (880-48886-26), B-91-4' (880-48886-27), B-92-4' (880-48886-28), B-93-4' (880-48886-29), B-94-4' (880-48886-30), B-95-4' (880-48886-31), B-96-4' (880-48886-32), B-97-4' (880-48886-33), B-98-4' (880-48886-34), B-99-4' (880-48886-35), B-100-4' (880-48886-36), B-101-4' (880-48886-37), B-102-4' (880-48886-38), B-103-4' (880-48886-39), B-104-4' (880-48886-40), B-105-4' (880-48886-41), B-106-4' (880-48886-42), B-107-4' (880-48886-43), B-108-4' (880-48886-44), B-109-4' (880-48886-45), B-110-4' (880-48886-46), B-111-4' (880-48886-47), B-112-4' (880-48886-48), B-113-4' (880-48886-49) and B-114-4' (880-48886-50).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91604 and 880-91658 and analytical batch 880-91586 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-91658 and analytical batch 880-91586 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 sample was outside control limits: B-99-4' (880-48886-35). Evidence of matrix interferences is not obvious.

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-100-4' (880-48886-36), B-101-4' (880-48886-37), B-107-4' (880-48886-43), B-108-4' (880-48886-44), B-110-4' (880-48886-46), (MB 880-91645/1-A), (880-48886-A-35-C MS) and (880-48886-A-35-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-63-4' (880-48886-1). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-91644 and analytical batch 880-91680 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-84-4' (880-48886-20), B-87-4' (880-48886-23), B-94-4' (880-48886-30), B-95-4' (880-48886-31) and B-97-4' (880-48886-33). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Arcadis U.S., Inc.
Project: WLU 41

Job ID: 880-48886-1

Job ID: 880-48886-1 (Continued) Eurofins Midland

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-91643 and analytical batch 880-91678 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-91641 and analytical batch 880-91649 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-63-4'

Date Collected: 09/20/24 08:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/24/24 22:36	1
Toluene	**0.00421**		0.00200	0.00200	mg/Kg		09/24/24 15:04	09/24/24 22:36	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/24/24 22:36	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/24/24 22:36	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:04	09/24/24 22:36	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/24/24 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/24/24 15:04*	*09/24/24 22:36*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/24/24 15:04*	*09/24/24 22:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00421**		0.00401	0.00229	mg/Kg			09/24/24 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	**129**		49.8	15.1	mg/Kg			09/25/24 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**34.5**	**J**	49.8	14.5	mg/Kg		09/24/24 14:20	09/25/24 18:15	1
Diesel Range Organics (Over C10-C28)	**56.7**	***-**	49.8	15.1	mg/Kg		09/24/24 14:20	09/25/24 18:15	1
Oil Range Organics (Over C28-C36)	**37.3**	**J**	49.8	15.1	mg/Kg		09/24/24 14:20	09/25/24 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*09/24/24 14:20*	*09/25/24 18:15*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*09/24/24 14:20*	*09/25/24 18:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**138**		5.04	0.398	mg/Kg			09/24/24 21:47	1

Client Sample ID: B-64-4'

Date Collected: 09/20/24 08:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:04	09/24/24 22:56	1
Toluene	**0.00329**		0.00199	0.00199	mg/Kg		09/24/24 15:04	09/24/24 22:56	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:04	09/24/24 22:56	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/24/24 22:56	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:04	09/24/24 22:56	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/24/24 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/24/24 15:04*	*09/24/24 22:56*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:04*	*09/24/24 22:56*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-64-4'

Date Collected: 09/20/24 08:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00329	J	0.00398	0.00228	mg/Kg			09/24/24 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	176		49.7	15.0	mg/Kg			09/25/24 16:03	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	32.8	J	49.7	14.4	mg/Kg		09/24/24 14:20	09/25/24 16:03	1
Diesel Range Organics (Over C10-C28)	87.3	*-	49.7	15.0	mg/Kg		09/24/24 14:20	09/25/24 16:03	1
Oil Range Organics (Over C28-C36)	56.2		49.7	15.0	mg/Kg		09/24/24 14:20	09/25/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*09/24/24 14:20*	*09/25/24 16:03*	*1*
o-Terphenyl	*101*		*70 - 130*	*09/24/24 14:20*	*09/25/24 16:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	822		25.2	1.99	mg/Kg			09/24/24 22:13	5

Client Sample ID: B-65-4'

Date Collected: 09/20/24 08:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/24/24 23:17	1
Toluene	0.00276		0.00200	0.00200	mg/Kg		09/24/24 15:04	09/24/24 23:17	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/24/24 23:17	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:04	09/24/24 23:17	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:04	09/24/24 23:17	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:04	09/24/24 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/24/24 15:04*	*09/24/24 23:17*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:04*	*09/24/24 23:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00276	J	0.00399	0.00228	mg/Kg			09/24/24 23:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	180		49.7	15.0	mg/Kg			09/25/24 16:23	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	33.2	J	49.7	14.4	mg/Kg		09/24/24 14:20	09/25/24 16:23	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-65-4'

Lab Sample ID: 880-48886-3
Matrix: Solid
Date Collected: 09/20/24 08:40
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	89.5	*-	49.7	15.0	mg/Kg		09/24/24 14:20	09/25/24 16:23	1
Oil Range Organics (Over C28-C36)	57.6		49.7	15.0	mg/Kg		09/24/24 14:20	09/25/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*09/24/24 14:20*	*09/25/24 16:23*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/24/24 14:20*	*09/25/24 16:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		5.02	0.397	mg/Kg			09/24/24 22:22	1

Client Sample ID: B-66-4'

Lab Sample ID: 880-48886-4
Matrix: Solid
Date Collected: 09/20/24 08:45
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/24/24 15:04	09/24/24 23:37	1
Toluene	0.00418		0.00201	0.00201	mg/Kg		09/24/24 15:04	09/24/24 23:37	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		09/24/24 15:04	09/24/24 23:37	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		09/24/24 15:04	09/24/24 23:37	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/24/24 15:04	09/24/24 23:37	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		09/24/24 15:04	09/24/24 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/24/24 15:04*	*09/24/24 23:37*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/24/24 15:04*	*09/24/24 23:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00418		0.00402	0.00230	mg/Kg			09/24/24 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	148		49.9	15.1	mg/Kg			09/25/24 16:43	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	32.0	J	49.9	14.5	mg/Kg		09/24/24 14:20	09/25/24 16:43	1
Diesel Range Organics (Over C10-C28)	70.7	*-	49.9	15.1	mg/Kg		09/24/24 14:20	09/25/24 16:43	1
Oil Range Organics (Over C28-C36)	45.0	J	49.9	15.1	mg/Kg		09/24/24 14:20	09/25/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*09/24/24 14:20*	*09/25/24 16:43*	*1*
o-Terphenyl	*111*		*70 - 130*	*09/24/24 14:20*	*09/25/24 16:43*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-66-4'

Lab Sample ID: 880-48886-4
Matrix: Solid
Date Collected: 09/20/24 08:45
Date Received: 09/24/24 13:20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**202**		5.03	0.397	mg/Kg			09/24/24 22:31	1

Client Sample ID: B-67-4'

Lab Sample ID: 880-48886-5
Matrix: Solid
Date Collected: 09/20/24 08:50
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/24/24 15:04	09/24/24 23:58	1
Toluene	**0.00252**		0.00201	0.00201	mg/Kg		09/24/24 15:04	09/24/24 23:58	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		09/24/24 15:04	09/24/24 23:58	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		09/24/24 15:04	09/24/24 23:58	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/24/24 15:04	09/24/24 23:58	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		09/24/24 15:04	09/24/24 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/24/24 15:04*	*09/24/24 23:58*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/24/24 15:04*	*09/24/24 23:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00252**	**J**	0.00402	0.00229	mg/Kg			09/24/24 23:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**159**		49.8	15.1	mg/Kg			09/25/24 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**32.5**	**J**	49.8	14.5	mg/Kg		09/24/24 14:20	09/25/24 17:17	1
Diesel Range Organics (Over C10-C28)	**75.8**	***-**	49.8	15.1	mg/Kg		09/24/24 14:20	09/25/24 17:17	1
Oil Range Organics (Over C28-C36)	**50.5**		49.8	15.1	mg/Kg		09/24/24 14:20	09/25/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*09/24/24 14:20*	*09/25/24 17:17*	*1*
o-Terphenyl	*98*		*70 - 130*	*09/24/24 14:20*	*09/25/24 17:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.6**		5.05	0.399	mg/Kg			09/24/24 22:40	1

Client Sample ID: B-68-4'

Lab Sample ID: 880-48886-6
Matrix: Solid
Date Collected: 09/20/24 08:55
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:04	09/25/24 00:18	1
Toluene	**0.00390**		0.00199	0.00199	mg/Kg		09/24/24 15:04	09/25/24 00:18	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:04	09/25/24 00:18	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-68-4'

Date Collected: 09/20/24 08:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/25/24 00:18	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:04	09/25/24 00:18	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/25/24 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/24/24 15:04*	*09/25/24 00:18*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:04*	*09/25/24 00:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00390**	**J**	0.00398	0.00228	mg/Kg			09/25/24 00:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**117**		50.0	15.1	mg/Kg			09/25/24 18:35	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	**33.1**	**J**	50.0	14.5	mg/Kg		09/24/24 14:20	09/25/24 18:35	1
Diesel Range Organics (Over C10-C28)	**52.0**	***-**	50.0	15.1	mg/Kg		09/24/24 14:20	09/25/24 18:35	1
Oil Range Organics (Over C28-C36)	**32.2**	**J**	50.0	15.1	mg/Kg		09/24/24 14:20	09/25/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*09/24/24 14:20*	*09/25/24 18:35*	*1*
o-Terphenyl	*105*		*70 - 130*	*09/24/24 14:20*	*09/25/24 18:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.9**		4.98	0.393	mg/Kg			09/24/24 23:07	1

Client Sample ID: B-69-4'

Date Collected: 09/20/24 09:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/25/24 00:38	1
Toluene	**0.00372**		0.00200	0.00200	mg/Kg		09/24/24 15:04	09/25/24 00:38	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/25/24 00:38	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:04	09/25/24 00:38	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:04	09/25/24 00:38	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:04	09/25/24 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/24/24 15:04*	*09/25/24 00:38*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:04*	*09/25/24 00:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00372**	**J**	0.00399	0.00228	mg/Kg			09/25/24 00:38	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-69-4'

Date Collected: 09/20/24 09:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	111		49.7	15.0	mg/Kg			09/25/24 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.6	J	49.7	14.4	mg/Kg		09/24/24 14:20	09/25/24 18:54	1
Diesel Range Organics (Over C10-C28)	47.7	J *-	49.7	15.0	mg/Kg		09/24/24 14:20	09/25/24 18:54	1
Oil Range Organics (Over C28-C36)	30.7	J	49.7	15.0	mg/Kg		09/24/24 14:20	09/25/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*09/24/24 14:20*	*09/25/24 18:54*	*1*
o-Terphenyl	*95*		*70 - 130*	*09/24/24 14:20*	*09/25/24 18:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	685		4.96	0.392	mg/Kg			09/24/24 23:16	1

Client Sample ID: B-70-4'

Date Collected: 09/20/24 09:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/24/24 15:04	09/25/24 00:59	1
Toluene	0.00719		0.00202	0.00202	mg/Kg		09/24/24 15:04	09/25/24 00:59	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/24/24 15:04	09/25/24 00:59	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:04	09/25/24 00:59	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/24/24 15:04	09/25/24 00:59	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:04	09/25/24 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/24/24 15:04*	*09/25/24 00:59*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 15:04*	*09/25/24 00:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00719		0.00403	0.00230	mg/Kg			09/25/24 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	131		49.8	15.1	mg/Kg			09/25/24 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.2	J	49.8	14.5	mg/Kg		09/24/24 14:20	09/25/24 17:36	1
Diesel Range Organics (Over C10-C28)	60.5	*-	49.8	15.1	mg/Kg		09/24/24 14:20	09/25/24 17:36	1
Oil Range Organics (Over C28-C36)	38.4	J	49.8	15.1	mg/Kg		09/24/24 14:20	09/25/24 17:36	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-70-4'

Lab Sample ID: 880-48886-8
Matrix: Solid
Date Collected: 09/20/24 09:05
Date Received: 09/24/24 13:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	09/24/24 14:20	09/25/24 17:36	1
o-Terphenyl	108		70 - 130	09/24/24 14:20	09/25/24 17:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.5		5.05	0.399	mg/Kg			09/24/24 23:25	1

Client Sample ID: B-71-4'

Lab Sample ID: 880-48886-9
Matrix: Solid
Date Collected: 09/20/24 09:10
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:04	09/25/24 01:19	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/24/24 15:04	09/25/24 01:19	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:04	09/25/24 01:19	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/25/24 01:19	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:04	09/25/24 01:19	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/25/24 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/24/24 15:04	09/25/24 01:19	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/24/24 15:04	09/25/24 01:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/25/24 01:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.8		49.9	15.1	mg/Kg			09/25/24 14:02	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	30.9	J	49.9	14.5	mg/Kg		09/24/24 14:20	09/25/24 14:02	1
Diesel Range Organics (Over C10-C28)	41.0	J *-	49.9	15.1	mg/Kg		09/24/24 14:20	09/25/24 14:02	1
Oil Range Organics (Over C28-C36)	26.9	J	49.9	15.1	mg/Kg		09/24/24 14:20	09/25/24 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	09/24/24 14:20	09/25/24 14:02	1
o-Terphenyl	126		70 - 130	09/24/24 14:20	09/25/24 14:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		4.97	0.393	mg/Kg			09/24/24 23:34	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-74-4'

Date Collected: 09/20/24 09:15
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/25/24 01:40	1
Toluene	**0.00290**		0.00200	0.00200	mg/Kg		09/24/24 15:04	09/25/24 01:40	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/25/24 01:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/25/24 01:40	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:04	09/25/24 01:40	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/25/24 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/24/24 15:04*	*09/25/24 01:40*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:04*	*09/25/24 01:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00290**	**J**	0.00401	0.00229	mg/Kg			09/25/24 01:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**96.3**		49.8	15.1	mg/Kg			09/25/24 14:22	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	**30.5**	**J**	49.8	14.5	mg/Kg		09/24/24 14:20	09/25/24 14:22	1
Diesel Range Organics (Over C10-C28)	**40.2**	**J *-**	49.8	15.1	mg/Kg		09/24/24 14:20	09/25/24 14:22	1
Oil Range Organics (Over C28-C36)	**25.6**	**J**	49.8	15.1	mg/Kg		09/24/24 14:20	09/25/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*09/24/24 14:20*	*09/25/24 14:22*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/24/24 14:20*	*09/25/24 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**585**		4.99	0.394	mg/Kg			09/24/24 23:43	1

Client Sample ID: B-75-4'

Date Collected: 09/20/24 09:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/25/24 03:03	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:04	09/25/24 03:03	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/25/24 03:03	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/25/24 03:03	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:04	09/25/24 03:03	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/25/24 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/24/24 15:04*	*09/25/24 03:03*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:04*	*09/25/24 03:03*	*1*

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-75-4'

Date Collected: 09/20/24 09:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-11
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/25/24 03:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**98.8**		49.7	15.0	mg/Kg			09/25/24 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	**30.5**	**J**	49.7	14.4	mg/Kg		09/24/24 14:20	09/25/24 14:42	1
Diesel Range Organics (Over C10-C28)	**41.5**	**J *-**	49.7	15.0	mg/Kg		09/24/24 14:20	09/25/24 14:42	1
Oil Range Organics (Over C28-C36)	**26.8**	**J**	49.7	15.0	mg/Kg		09/24/24 14:20	09/25/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*09/24/24 14:20*	*09/25/24 14:42*	*1*
o-Terphenyl	*107*		*70 - 130*	*09/24/24 14:20*	*09/25/24 14:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**478**	**F1**	5.00	0.395	mg/Kg			09/24/24 23:52	1

Client Sample ID: B-76-4'

Date Collected: 09/20/24 09:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:04	09/25/24 03:23	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/24/24 15:04	09/25/24 03:23	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:04	09/25/24 03:23	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/25/24 03:23	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:04	09/25/24 03:23	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/25/24 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/24/24 15:04*	*09/25/24 03:23*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:04*	*09/25/24 03:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/25/24 03:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**98.9**		50.0	15.1	mg/Kg			09/25/24 15:02	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	**29.7**	**J**	50.0	14.5	mg/Kg		09/24/24 14:20	09/25/24 15:02	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-76-4'

Date Collected: 09/20/24 09:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	42.2	J *-	50.0	15.1	mg/Kg		09/24/24 14:20	09/25/24 15:02	1
Oil Range Organics (Over C28-C36)	27.0	J	50.0	15.1	mg/Kg		09/24/24 14:20	09/25/24 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*09/24/24 14:20*	*09/25/24 15:02*	*1*
o-Terphenyl	*100*		*70 - 130*	*09/24/24 14:20*	*09/25/24 15:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	665		5.05	0.399	mg/Kg			09/25/24 00:19	1

Client Sample ID: B-77-4'

Date Collected: 09/20/24 10:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/24/24 15:04	09/25/24 03:44	1
Toluene	0.00459		0.00199	0.00199	mg/Kg		09/24/24 15:04	09/25/24 03:44	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:04	09/25/24 03:44	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/24/24 15:04	09/25/24 03:44	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/24/24 15:04	09/25/24 03:44	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/24/24 15:04	09/25/24 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/24/24 15:04*	*09/25/24 03:44*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:04*	*09/25/24 03:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00459		0.00398	0.00227	mg/Kg			09/25/24 03:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	131		50.0	15.1	mg/Kg			09/25/24 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.2	J	50.0	14.5	mg/Kg		09/24/24 14:20	09/25/24 17:56	1
Diesel Range Organics (Over C10-C28)	57.6	*-	50.0	15.1	mg/Kg		09/24/24 14:20	09/25/24 17:56	1
Oil Range Organics (Over C28-C36)	34.0	J	50.0	15.1	mg/Kg		09/24/24 14:20	09/25/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*09/24/24 14:20*	*09/25/24 17:56*	*1*
o-Terphenyl	*110*		*70 - 130*	*09/24/24 14:20*	*09/25/24 17:56*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-77-4'

Lab Sample ID: 880-48886-13
Matrix: Solid
Date Collected: 09/20/24 10:00
Date Received: 09/24/24 13:20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**216**		5.01	0.396	mg/Kg			09/25/24 00:28	1

Client Sample ID: B-78-4'

Lab Sample ID: 880-48886-14
Matrix: Solid
Date Collected: 09/20/24 10:05
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/25/24 04:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:04	09/25/24 04:04	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/25/24 04:04	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:04	09/25/24 04:04	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:04	09/25/24 04:04	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:04	09/25/24 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/24/24 15:04*	*09/25/24 04:04*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:04*	*09/25/24 04:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/25/24 04:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**98.3**		49.9	15.1	mg/Kg			09/25/24 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**29.8**	**J**	49.9	14.5	mg/Kg		09/24/24 14:20	09/25/24 15:43	1
Diesel Range Organics (Over C10-C28)	**42.2**	**J *-**	49.9	15.1	mg/Kg		09/24/24 14:20	09/25/24 15:43	1
Oil Range Organics (Over C28-C36)	**26.3**	**J**	49.9	15.1	mg/Kg		09/24/24 14:20	09/25/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*09/24/24 14:20*	*09/25/24 15:43*	*1*
o-Terphenyl	*103*		*70 - 130*	*09/24/24 14:20*	*09/25/24 15:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**701**		5.04	0.398	mg/Kg			09/25/24 00:54	1

Client Sample ID: B-79-4'

Lab Sample ID: 880-48886-15
Matrix: Solid
Date Collected: 09/20/24 10:10
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/25/24 04:25	1
Toluene	**0.00343**		0.00200	0.00200	mg/Kg		09/24/24 15:04	09/25/24 04:25	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/25/24 04:25	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-79-4'

Date Collected: 09/20/24 10:10
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/25/24 04:25	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:04	09/25/24 04:25	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/25/24 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/24/24 15:04*	*09/25/24 04:25*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:04*	*09/25/24 04:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00343**	**J**	0.00401	0.00229	mg/Kg			09/25/24 04:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**108**		50.0	15.1	mg/Kg			09/25/24 11:21	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	**40.9**	**J**	50.0	14.5	mg/Kg		09/24/24 14:23	09/25/24 11:21	1
Diesel Range Organics (Over C10-C28)	**67.2**		50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 11:21	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*09/24/24 14:23*	*09/25/24 11:21*	*1*
o-Terphenyl	*120*		*70 - 130*	*09/24/24 14:23*	*09/25/24 11:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**638**		4.96	0.392	mg/Kg			09/25/24 01:03	1

Client Sample ID: B-80-4'

Date Collected: 09/20/24 10:15
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/25/24 04:45	1
Toluene	**0.00287**		0.00200	0.00200	mg/Kg		09/24/24 15:04	09/25/24 04:45	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/25/24 04:45	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/25/24 04:45	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:04	09/25/24 04:45	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:04	09/25/24 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/24/24 15:04*	*09/25/24 04:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:04*	*09/25/24 04:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00287**	**J**	0.00401	0.00229	mg/Kg			09/25/24 04:45	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-80-4'

Date Collected: 09/20/24 10:15
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**84.0**		49.8	15.1	mg/Kg			09/25/24 12:22	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	**27.8**	**J**	49.8	14.5	mg/Kg		09/24/24 14:23	09/25/24 12:22	1
Diesel Range Organics (Over C10-C28)	**56.2**		49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 12:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*09/24/24 14:23*	*09/25/24 12:22*	*1*
o-Terphenyl	*116*		*70 - 130*	*09/24/24 14:23*	*09/25/24 12:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**318**		5.03	0.397	mg/Kg			09/25/24 01:12	1

Client Sample ID: B-81-4'

Date Collected: 09/20/24 10:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:04	09/25/24 05:05	1
Toluene	**0.00214**		0.00199	0.00199	mg/Kg		09/24/24 15:04	09/25/24 05:05	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:04	09/25/24 05:05	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/25/24 05:05	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:04	09/25/24 05:05	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:04	09/25/24 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/24/24 15:04*	*09/25/24 05:05*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 15:04*	*09/25/24 05:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/25/24 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**97.7**		50.0	15.1	mg/Kg			09/25/24 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**41.5**	**J**	50.0	14.5	mg/Kg		09/24/24 14:23	09/25/24 12:42	1
Diesel Range Organics (Over C10-C28)	**56.2**		50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 12:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*09/24/24 14:23*	*09/25/24 12:42*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-81-4'

Date Collected: 09/20/24 10:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-17

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*129*		*70 - 130*	*09/24/24 14:23*	*09/25/24 12:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**252**		4.98	0.393	mg/Kg			09/25/24 01:21	1

Client Sample ID: B-82-4'

Date Collected: 09/20/24 10:25
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-18

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/25/24 05:26	1
Toluene	**0.00219**		0.00200	0.00200	mg/Kg		09/24/24 15:04	09/25/24 05:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/25/24 05:26	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:04	09/25/24 05:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:04	09/25/24 05:26	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:04	09/25/24 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/24/24 15:04*	*09/25/24 05:26*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:04*	*09/25/24 05:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/25/24 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**91.2**		49.8	15.1	mg/Kg			09/25/24 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**37.0**	**J**	49.8	14.5	mg/Kg		09/24/24 14:23	09/25/24 13:02	1
Diesel Range Organics (Over C10-C28)	**54.2**		49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 13:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*117*		*70 - 130*	*09/24/24 14:23*	*09/25/24 13:02*	*1*
o-Terphenyl	*128*		*70 - 130*	*09/24/24 14:23*	*09/25/24 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**405**		5.01	0.396	mg/Kg			09/25/24 01:30	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-83-4'

Date Collected: 09/20/24 10:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/25/24 05:46	1
Toluene	**0.00539**		0.00200	0.00200	mg/Kg		09/24/24 15:04	09/25/24 05:46	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/25/24 05:46	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:04	09/25/24 05:46	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:04	09/25/24 05:46	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:04	09/25/24 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/24/24 15:04*	*09/25/24 05:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:04*	*09/25/24 05:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00539**		0.00400	0.00229	mg/Kg			09/25/24 05:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**118**		49.6	15.0	mg/Kg			09/25/24 14:02	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	**33.4**	**J**	49.6	14.4	mg/Kg		09/24/24 14:23	09/25/24 14:02	1
Diesel Range Organics (Over C10-C28)	**84.6**		49.6	15.0	mg/Kg		09/24/24 14:23	09/25/24 14:02	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		09/24/24 14:23	09/25/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*09/24/24 14:23*	*09/25/24 14:02*	*1*
o-Terphenyl	*125*		*70 - 130*	*09/24/24 14:23*	*09/25/24 14:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1480**		25.2	1.99	mg/Kg			09/25/24 01:39	5

Client Sample ID: B-84-4'

Date Collected: 09/20/24 10:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-20

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/24/24 15:04	09/25/24 06:07	1
Toluene	**0.00338**		0.00202	0.00202	mg/Kg		09/24/24 15:04	09/25/24 06:07	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/24/24 15:04	09/25/24 06:07	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:04	09/25/24 06:07	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/24/24 15:04	09/25/24 06:07	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:04	09/25/24 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/24/24 15:04*	*09/25/24 06:07*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:04*	*09/25/24 06:07*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-84-4'

Date Collected: 09/20/24 10:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-20

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00338	J	0.00403	0.00230	mg/Kg			09/25/24 06:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	106		49.8	15.1	mg/Kg			09/25/24 15:02	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	37.4	J	49.8	14.5	mg/Kg		09/24/24 14:23	09/25/24 15:02	1
Diesel Range Organics (Over C10-C28)	68.7		49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 15:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/24/24 14:23*	*09/25/24 15:02*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 15:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		5.05	0.399	mg/Kg			09/25/24 01:48	1

Client Sample ID: B-85-4'

Date Collected: 09/20/24 10:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-21

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 02:45	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 02:45	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 02:45	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 02:45	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:06	09/25/24 02:45	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*09/24/24 15:06*	*09/25/24 02:45*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*09/24/24 15:06*	*09/25/24 02:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/25/24 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.3		49.8	15.1	mg/Kg			09/25/24 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	29.3	J	49.8	14.5	mg/Kg		09/24/24 14:23	09/25/24 13:22	1
Diesel Range Organics (Over C10-C28)	49.0	J	49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 13:22	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-85-4'

Date Collected: 09/20/24 10:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*09/24/24 14:23*	*09/25/24 13:22*	*1*
o-Terphenyl	*119*		*70 - 130*	*09/24/24 14:23*	*09/25/24 13:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73.4**		5.03	0.397	mg/Kg			09/24/24 16:34	1

Client Sample ID: B-86-4'

Date Collected: 09/20/24 10:45
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-22
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:06	09/25/24 03:06	1
Toluene	**0.00315**		0.00199	0.00199	mg/Kg		09/24/24 15:06	09/25/24 03:06	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:06	09/25/24 03:06	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 03:06	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:06	09/25/24 03:06	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*09/24/24 15:06*	*09/25/24 03:06*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/24/24 15:06*	*09/25/24 03:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00315**	**J**	0.00398	0.00228	mg/Kg			09/25/24 03:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**121**		49.7	15.0	mg/Kg			09/25/24 14:22	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	**44.4**	**J**	49.7	14.4	mg/Kg		09/24/24 14:23	09/25/24 14:22	1
Diesel Range Organics (Over C10-C28)	**76.2**		49.7	15.0	mg/Kg		09/24/24 14:23	09/25/24 14:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/24/24 14:23	09/25/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*09/24/24 14:23*	*09/25/24 14:22*	*1*
o-Terphenyl	*130*		*70 - 130*	*09/24/24 14:23*	*09/25/24 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**		5.02	0.397	mg/Kg			09/24/24 17:00	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-87-4'

Date Collected: 09/20/24 10:50
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 03:26	1
Toluene	**0.00587**		0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 03:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 03:26	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:06	09/25/24 03:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:06	09/25/24 03:26	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:06	09/25/24 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/24/24 15:06*	*09/25/24 03:26*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:06*	*09/25/24 03:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00587**		0.00399	0.00228	mg/Kg			09/25/24 03:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**137**		49.7	15.0	mg/Kg			09/25/24 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**41.3**	**J**	49.7	14.4	mg/Kg		09/24/24 14:23	09/25/24 15:43	1
Diesel Range Organics (Over C10-C28)	**95.4**		49.7	15.0	mg/Kg		09/24/24 14:23	09/25/24 15:43	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/24/24 14:23	09/25/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*239*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 15:43*	*1*
o-Terphenyl	*251*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 15:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**397**		5.03	0.397	mg/Kg			09/24/24 17:09	1

Client Sample ID: B-88-4'

Date Collected: 09/20/24 10:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-24

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/24/24 15:06	09/25/24 03:47	1
Toluene	**0.00790**		0.00201	0.00201	mg/Kg		09/24/24 15:06	09/25/24 03:47	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		09/24/24 15:06	09/25/24 03:47	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		09/24/24 15:06	09/25/24 03:47	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/24/24 15:06	09/25/24 03:47	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		09/24/24 15:06	09/25/24 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*09/24/24 15:06*	*09/25/24 03:47*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 15:06*	*09/25/24 03:47*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-88-4'

Date Collected: 09/20/24 10:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-24

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00790		0.00402	0.00230	mg/Kg			09/25/24 03:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	172		50.0	15.1	mg/Kg			09/25/24 16:03	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	32.5	J	50.0	14.5	mg/Kg		09/24/24 14:23	09/25/24 16:03	1
Diesel Range Organics (Over C10-C28)	139		50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 16:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*09/24/24 14:23*	*09/25/24 16:03*	*1*
o-Terphenyl	*129*		*70 - 130*	*09/24/24 14:23*	*09/25/24 16:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	323		4.99	0.394	mg/Kg			09/24/24 17:18	1

Client Sample ID: B-89-4'

Date Collected: 09/20/24 11:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-25

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/24/24 15:06	09/25/24 04:08	1
Toluene	0.00914		0.00201	0.00201	mg/Kg		09/24/24 15:06	09/25/24 04:08	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		09/24/24 15:06	09/25/24 04:08	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		09/24/24 15:06	09/25/24 04:08	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/24/24 15:06	09/25/24 04:08	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		09/24/24 15:06	09/25/24 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*09/24/24 15:06*	*09/25/24 04:08*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/24/24 15:06*	*09/25/24 04:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00914		0.00402	0.00229	mg/Kg			09/25/24 04:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	273		49.9	15.1	mg/Kg			09/25/24 16:23	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	48.4	J	49.9	14.5	mg/Kg		09/24/24 14:23	09/25/24 16:23	1
Diesel Range Organics (Over C10-C28)	225		49.9	15.1	mg/Kg		09/24/24 14:23	09/25/24 16:23	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-89-4'

Date Collected: 09/20/24 11:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/24/24 14:23	09/25/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*09/24/24 14:23*	*09/25/24 16:23*	*1*
o-Terphenyl	*125*		*70 - 130*	*09/24/24 14:23*	*09/25/24 16:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.1**		5.00	0.395	mg/Kg			09/24/24 17:27	1

Client Sample ID: B-90-4'

Date Collected: 09/20/24 11:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-26
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:06	09/25/24 04:28	1
Toluene	**0.00548**		0.00199	0.00199	mg/Kg		09/24/24 15:06	09/25/24 04:28	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:06	09/25/24 04:28	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 04:28	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:06	09/25/24 04:28	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/24/24 15:06*	*09/25/24 04:28*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 15:06*	*09/25/24 04:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00548**		0.00398	0.00228	mg/Kg			09/25/24 04:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**264**		49.8	15.1	mg/Kg			09/25/24 16:43	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	**31.7**	**J**	49.8	14.5	mg/Kg		09/24/24 14:23	09/25/24 16:43	1
Diesel Range Organics (Over C10-C28)	**232**		49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 16:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*09/24/24 14:23*	*09/25/24 16:43*	*1*
o-Terphenyl	*129*		*70 - 130*	*09/24/24 14:23*	*09/25/24 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		5.01	0.396	mg/Kg			09/24/24 17:54	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-91-4'

Date Collected: 09/20/24 11:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-27

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 04:49	1
Toluene	**0.00901**		0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 04:49	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 04:49	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:06	09/25/24 04:49	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:06	09/25/24 04:49	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:06	09/25/24 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*09/24/24 15:06*	*09/25/24 04:49*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 15:06*	*09/25/24 04:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00901**		0.00399	0.00228	mg/Kg			09/25/24 04:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**335**		49.8	15.1	mg/Kg			09/25/24 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**32.2**	**J**	49.8	14.5	mg/Kg		09/24/24 14:23	09/25/24 17:17	1
Diesel Range Organics (Over C10-C28)	**303**		49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 17:17	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/24/24 14:23*	*09/25/24 17:17*	*1*
o-Terphenyl	*124*		*70 - 130*	*09/24/24 14:23*	*09/25/24 17:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.6**		4.98	0.393	mg/Kg			09/24/24 18:03	1

Client Sample ID: B-92-4'

Date Collected: 09/20/24 11:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-28

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/24/24 15:06	09/25/24 05:09	1
Toluene	**0.00471**		0.00202	0.00202	mg/Kg		09/24/24 15:06	09/25/24 05:09	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/24/24 15:06	09/25/24 05:09	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:06	09/25/24 05:09	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/24/24 15:06	09/25/24 05:09	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:06	09/25/24 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*09/24/24 15:06*	*09/25/24 05:09*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/24/24 15:06*	*09/25/24 05:09*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-92-4'

Date Collected: 09/20/24 11:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-28

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00471		0.00403	0.00230	mg/Kg			09/25/24 05:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	252		50.0	15.1	mg/Kg			09/25/24 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.7	J	50.0	14.5	mg/Kg		09/24/24 14:23	09/25/24 17:36	1
Diesel Range Organics (Over C10-C28)	221		50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 17:36	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/24/24 14:23*	*09/25/24 17:36*	*1*
o-Terphenyl	*91*		*70 - 130*	*09/24/24 14:23*	*09/25/24 17:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.3		4.96	0.392	mg/Kg			09/24/24 18:12	1

Client Sample ID: B-93-4'

Date Collected: 09/20/24 11:45
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-29

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:06	09/25/24 05:30	1
Toluene	0.00351		0.00199	0.00199	mg/Kg		09/24/24 15:06	09/25/24 05:30	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:06	09/25/24 05:30	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 05:30	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:06	09/25/24 05:30	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/24/24 15:06*	*09/25/24 05:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/24/24 15:06*	*09/25/24 05:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00351	J	0.00398	0.00228	mg/Kg			09/25/24 05:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	240		49.7	15.0	mg/Kg			09/25/24 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.9	J	49.7	14.4	mg/Kg		09/24/24 14:23	09/25/24 17:56	1
Diesel Range Organics (Over C10-C28)	217		49.7	15.0	mg/Kg		09/24/24 14:23	09/25/24 17:56	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-93-4'

Date Collected: 09/20/24 11:45
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-29
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/24/24 14:23	09/25/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*09/24/24 14:23*	*09/25/24 17:56*	*1*
o-Terphenyl	*126*		*70 - 130*	*09/24/24 14:23*	*09/25/24 17:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.3**		5.01	0.396	mg/Kg			09/24/24 18:21	1

Client Sample ID: B-94-4'

Date Collected: 09/20/24 11:50
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-30
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 05:50	1
Toluene	**0.00642**		0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 05:50	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 05:50	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 05:50	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:06	09/25/24 05:50	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/24/24 15:06*	*09/25/24 05:50*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:06*	*09/25/24 05:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00642**		0.00401	0.00229	mg/Kg			09/25/24 05:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**230**		49.7	15.0	mg/Kg			09/25/24 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**32.9**	**J**	49.7	14.4	mg/Kg		09/24/24 14:23	09/25/24 18:15	1
Diesel Range Organics (Over C10-C28)	**197**		49.7	15.0	mg/Kg		09/24/24 14:23	09/25/24 18:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/24/24 14:23	09/25/24 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 18:15*	*1*
o-Terphenyl	*166*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 18:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.4**		5.02	0.397	mg/Kg			09/24/24 18:30	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-95-4'

Date Collected: 09/20/24 11:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-31
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 09:49	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 09:49	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 09:49	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 09:49	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:06	09/25/24 09:49	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*09/24/24 15:06*	*09/25/24 09:49*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*09/24/24 15:06*	*09/25/24 09:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/25/24 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**178**		49.9	15.1	mg/Kg			09/25/24 18:35	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	**18.8**	**J**	49.9	14.5	mg/Kg		09/24/24 14:23	09/25/24 18:35	1
Diesel Range Organics (Over C10-C28)	**159**		49.9	15.1	mg/Kg		09/24/24 14:23	09/25/24 18:35	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/24/24 14:23	09/25/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 18:35*	*1*
o-Terphenyl	*160*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 18:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**		5.02	0.397	mg/Kg			09/24/24 18:39	1

Client Sample ID: B-96-4'

Date Collected: 09/20/24 12:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-32
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:06	09/25/24 10:11	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/24/24 15:06	09/25/24 10:11	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:06	09/25/24 10:11	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 10:11	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:06	09/25/24 10:11	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 10:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/24/24 15:06*	*09/25/24 10:11*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:06*	*09/25/24 10:11*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-96-4'

Date Collected: 09/20/24 12:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-32

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/25/24 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**83.4**		50.0	15.1	mg/Kg			09/25/24 13:42	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	**30.4**	**J**	50.0	14.5	mg/Kg		09/24/24 14:23	09/25/24 13:42	1
Diesel Range Organics (Over C10-C28)	**53.0**		50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 13:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*09/24/24 14:23*	*09/25/24 13:42*	*1*
o-Terphenyl	*118*		*70 - 130*	*09/24/24 14:23*	*09/25/24 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**444**		5.02	0.397	mg/Kg			09/24/24 19:06	1

Client Sample ID: B-97-4'

Date Collected: 09/20/24 12:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-33

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		09/24/24 15:06	09/25/24 10:31	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/24/24 15:06	09/25/24 10:31	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:06	09/25/24 10:31	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/24/24 15:06	09/25/24 10:31	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		09/24/24 15:06	09/25/24 10:31	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/24/24 15:06	09/25/24 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*09/24/24 15:06*	*09/25/24 10:31*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/24/24 15:06*	*09/25/24 10:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			09/25/24 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**177**		49.8	15.1	mg/Kg			09/25/24 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**42.3**	**J**	49.8	14.5	mg/Kg		09/24/24 14:23	09/25/24 18:54	1
Diesel Range Organics (Over C10-C28)	**135**		49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 18:54	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-97-4'

Date Collected: 09/20/24 12:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:23	09/25/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 18:54*	*1*
o-Terphenyl	*168*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 18:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**448**		5.02	0.397	mg/Kg			09/24/24 19:15	1

Client Sample ID: B-98-4'

Date Collected: 09/20/24 12:10
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-34
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 10:52	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 10:52	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 10:52	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:06	09/25/24 10:52	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:06	09/25/24 10:52	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:06	09/25/24 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/24/24 15:06*	*09/25/24 10:52*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:06*	*09/25/24 10:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/25/24 10:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**130**		50.0	15.1	mg/Kg			09/25/24 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	**47.0**	**J**	50.0	14.5	mg/Kg		09/24/24 14:23	09/25/24 14:42	1
Diesel Range Organics (Over C10-C28)	**82.9**		50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 14:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*09/24/24 14:23*	*09/25/24 14:42*	*1*
o-Terphenyl	*116*		*70 - 130*	*09/24/24 14:23*	*09/25/24 14:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**885**		4.98	0.393	mg/Kg			09/24/24 19:41	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-99-4'

Date Collected: 09/20/24 12:15
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-35

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 11:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 11:13	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 11:13	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 11:13	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:06	09/25/24 11:13	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 11:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/24/24 15:06*	*09/25/24 11:13*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/24/24 15:06*	*09/25/24 11:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/25/24 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**136**		50.0	15.1	mg/Kg			09/25/24 20:32	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	**24.9**	**J**	50.0	14.5	mg/Kg		09/24/24 14:26	09/25/24 20:32	1
Diesel Range Organics (Over C10-C28)	**111**		50.0	15.1	mg/Kg		09/24/24 14:26	09/25/24 20:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:26	09/25/24 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 20:32*	*1*
o-Terphenyl	*156*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 20:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**490**		5.03	0.397	mg/Kg			09/24/24 19:50	1

Client Sample ID: B-100-4'

Date Collected: 09/20/24 12:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-36

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 11:33	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 11:33	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 11:33	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 11:33	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:06	09/25/24 11:33	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:06	09/25/24 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/24/24 15:06*	*09/25/24 11:33*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/24/24 15:06*	*09/25/24 11:33*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-100-4'

Date Collected: 09/20/24 12:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-36

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			09/25/24 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**253**		49.8	15.1	mg/Kg			09/25/24 22:28	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	**26.6**	**J**	49.8	14.5	mg/Kg		09/24/24 14:26	09/25/24 22:28	1
Diesel Range Organics (Over C10-C28)	**226**		49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 22:28	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 22:28*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 22:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**245**		4.96	0.392	mg/Kg			09/24/24 19:59	1

Client Sample ID: B-101-4'

Date Collected: 09/20/24 12:25
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-37

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:06	09/25/24 11:54	1
Toluene	**0.00285**		0.00199	0.00199	mg/Kg		09/24/24 15:06	09/25/24 11:54	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:06	09/25/24 11:54	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 11:54	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:06	09/25/24 11:54	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:06	09/25/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/24/24 15:06*	*09/25/24 11:54*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:06*	*09/25/24 11:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00285**	**J**	0.00398	0.00228	mg/Kg			09/25/24 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**151**		49.8	15.1	mg/Kg			09/25/24 23:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**45.1**	**J**	49.8	14.5	mg/Kg		09/24/24 14:26	09/25/24 23:46	1
Diesel Range Organics (Over C10-C28)	**106**		49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 23:46	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-101-4'

Date Collected: 09/20/24 12:25
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-37

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 23:46*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 23:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**197**		5.04	0.398	mg/Kg			09/24/24 20:08	1

Client Sample ID: B-102-4'

Date Collected: 09/20/24 12:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-38

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 12:15	1
Toluene	**0.00470**		0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 12:15	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 12:15	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:06	09/25/24 12:15	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:06	09/25/24 12:15	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:06	09/25/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/24/24 15:06*	*09/25/24 12:15*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:06*	*09/25/24 12:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00470**		0.00399	0.00228	mg/Kg			09/25/24 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**130**		49.7	15.0	mg/Kg			09/26/24 00:05	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	**35.6**	**J**	49.7	14.4	mg/Kg		09/24/24 14:26	09/26/24 00:05	1
Diesel Range Organics (Over C10-C28)	**94.3**		49.7	15.0	mg/Kg		09/24/24 14:26	09/26/24 00:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/24/24 14:26	09/26/24 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*09/24/24 14:26*	*09/26/24 00:05*	*1*
o-Terphenyl	*130*		*70 - 130*	*09/24/24 14:26*	*09/26/24 00:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**		5.01	0.396	mg/Kg			09/24/24 20:17	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-103-4'

Lab Sample ID: 880-48886-39
Matrix: Solid
Date Collected: 09/20/24 13:15
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 12:35	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 12:35	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 12:35	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:06	09/25/24 12:35	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:06	09/25/24 12:35	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:06	09/25/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*09/24/24 15:06*	*09/25/24 12:35*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 15:06*	*09/25/24 12:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			09/25/24 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**140**		50.0	15.1	mg/Kg			09/26/24 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**47.5**	**J**	50.0	14.5	mg/Kg		09/24/24 14:26	09/26/24 00:45	1
Diesel Range Organics (Over C10-C28)	**92.6**		50.0	15.1	mg/Kg		09/24/24 14:26	09/26/24 00:45	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:26	09/26/24 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*09/24/24 14:26*	*09/26/24 00:45*	*1*
o-Terphenyl	*126*		*70 - 130*	*09/24/24 14:26*	*09/26/24 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**637**		25.1	1.98	mg/Kg			09/24/24 20:26	5

Client Sample ID: B-104-4'

Lab Sample ID: 880-48886-40
Matrix: Solid
Date Collected: 09/20/24 13:20
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/24/24 15:06	09/25/24 12:56	1
Toluene	**0.00258**		0.00202	0.00202	mg/Kg		09/24/24 15:06	09/25/24 12:56	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/24/24 15:06	09/25/24 12:56	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:06	09/25/24 12:56	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/24/24 15:06	09/25/24 12:56	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:06	09/25/24 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/24/24 15:06*	*09/25/24 12:56*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 15:06*	*09/25/24 12:56*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-104-4'

Date Collected: 09/20/24 13:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-40

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00258	J	0.00403	0.00230	mg/Kg			09/25/24 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	166		49.8	15.1	mg/Kg			09/25/24 22:47	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	28.9	J	49.8	14.5	mg/Kg		09/24/24 14:26	09/25/24 22:47	1
Diesel Range Organics (Over C10-C28)	137		49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 22:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*09/24/24 14:26*	*09/25/24 22:47*	*1*
o-Terphenyl	*129*		*70 - 130*	*09/24/24 14:26*	*09/25/24 22:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.5		5.04	0.398	mg/Kg			09/24/24 20:35	1

Client Sample ID: B-105-4'

Date Collected: 09/20/24 13:25
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-41

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:07	09/25/24 01:43	1
Toluene	0.00860	F1	0.00200	0.00200	mg/Kg		09/24/24 15:07	09/25/24 01:43	1
Ethylbenzene	<0.00109	U F1	0.00200	0.00109	mg/Kg		09/24/24 15:07	09/25/24 01:43	1
m-Xylene & p-Xylene	<0.00229	U F1	0.00401	0.00229	mg/Kg		09/24/24 15:07	09/25/24 01:43	1
o-Xylene	<0.00159	U F1	0.00200	0.00159	mg/Kg		09/24/24 15:07	09/25/24 01:43	1
Xylenes, Total	<0.00229	U F1	0.00401	0.00229	mg/Kg		09/24/24 15:07	09/25/24 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/24/24 15:07*	*09/25/24 01:43*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/24/24 15:07*	*09/25/24 01:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00860		0.00401	0.00229	mg/Kg			09/25/24 01:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	273		49.8	15.1	mg/Kg			09/25/24 22:09	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	36.5	J	49.8	14.5	mg/Kg		09/24/24 14:26	09/25/24 22:09	1
Diesel Range Organics (Over C10-C28)	236		49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 22:09	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-105-4'

Date Collected: 09/20/24 13:25
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-41

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*09/24/24 14:26*	*09/25/24 22:09*	*1*
o-Terphenyl	*123*		*70 - 130*	*09/24/24 14:26*	*09/25/24 22:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.57**		5.04	0.398	mg/Kg			09/26/24 00:11	1

Client Sample ID: B-106-4'

Date Collected: 09/20/24 13:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-42

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:07	09/25/24 02:04	1
Toluene	**0.00559**		0.00199	0.00199	mg/Kg		09/24/24 15:07	09/25/24 02:04	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:07	09/25/24 02:04	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:07	09/25/24 02:04	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:07	09/25/24 02:04	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:07	09/25/24 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/24/24 15:07*	*09/25/24 02:04*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/24/24 15:07*	*09/25/24 02:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00559**		0.00398	0.00228	mg/Kg			09/25/24 02:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**340**		49.7	15.0	mg/Kg			09/25/24 21:30	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	**39.1**	**J**	49.7	14.4	mg/Kg		09/24/24 14:26	09/25/24 21:30	1
Diesel Range Organics (Over C10-C28)	**301**		49.7	15.0	mg/Kg		09/24/24 14:26	09/25/24 21:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/24/24 14:26	09/25/24 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*09/24/24 14:26*	*09/25/24 21:30*	*1*
o-Terphenyl	*121*		*70 - 130*	*09/24/24 14:26*	*09/25/24 21:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.16**		5.04	0.398	mg/Kg			09/26/24 00:27	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-107-4'

Date Collected: 09/20/24 13:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-43

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:07	09/25/24 02:24	1
Toluene	**0.00485**		0.00200	0.00200	mg/Kg		09/24/24 15:07	09/25/24 02:24	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:07	09/25/24 02:24	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:07	09/25/24 02:24	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:07	09/25/24 02:24	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:07	09/25/24 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*09/24/24 15:07*	*09/25/24 02:24*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/24/24 15:07*	*09/25/24 02:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00485**		0.00399	0.00228	mg/Kg			09/25/24 02:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**332**		49.7	15.0	mg/Kg			09/25/24 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**39.9**	**J**	49.7	14.4	mg/Kg		09/24/24 14:26	09/25/24 21:49	1
Diesel Range Organics (Over C10-C28)	**292**		49.7	15.0	mg/Kg		09/24/24 14:26	09/25/24 21:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		09/24/24 14:26	09/25/24 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 21:49*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 21:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.00**		5.05	0.399	mg/Kg			09/26/24 00:33	1

Client Sample ID: B-108-4'

Date Collected: 09/20/24 13:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-44

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/24/24 15:07	09/25/24 02:44	1
Toluene	**0.00477**		0.00201	0.00201	mg/Kg		09/24/24 15:07	09/25/24 02:44	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		09/24/24 15:07	09/25/24 02:44	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		09/24/24 15:07	09/25/24 02:44	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/24/24 15:07	09/25/24 02:44	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		09/24/24 15:07	09/25/24 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/24/24 15:07*	*09/25/24 02:44*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/24/24 15:07*	*09/25/24 02:44*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-108-4'

Date Collected: 09/20/24 13:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-44

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00477		0.00402	0.00230	mg/Kg			09/25/24 02:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	151		50.0	15.1	mg/Kg			09/25/24 23:27	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	22.4	J	50.0	14.5	mg/Kg		09/24/24 14:26	09/25/24 23:27	1
Diesel Range Organics (Over C10-C28)	129		50.0	15.1	mg/Kg		09/24/24 14:26	09/25/24 23:27	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:26	09/25/24 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 23:27*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 23:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.6		4.96	0.392	mg/Kg			09/26/24 00:38	1

Client Sample ID: B-109-4'

Date Collected: 09/20/24 13:45
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-45

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/24/24 15:07	09/25/24 03:05	1
Toluene	0.00459		0.00201	0.00201	mg/Kg		09/24/24 15:07	09/25/24 03:05	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		09/24/24 15:07	09/25/24 03:05	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		09/24/24 15:07	09/25/24 03:05	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/24/24 15:07	09/25/24 03:05	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		09/24/24 15:07	09/25/24 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/24/24 15:07*	*09/25/24 03:05*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/24/24 15:07*	*09/25/24 03:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00459		0.00402	0.00229	mg/Kg			09/25/24 03:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	124		49.8	15.1	mg/Kg			09/26/24 01:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.7	J	49.8	14.5	mg/Kg		09/24/24 14:26	09/26/24 01:24	1
Diesel Range Organics (Over C10-C28)	85.8		49.8	15.1	mg/Kg		09/24/24 14:26	09/26/24 01:24	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-109-4'

Lab Sample ID: 880-48886-45
Matrix: Solid
Date Collected: 09/20/24 13:45
Date Received: 09/24/24 13:20

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)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:26	09/26/24 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/26/24 01:24*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/26/24 01:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**265**		4.95	0.391	mg/Kg			09/26/24 00:44	1

Client Sample ID: B-110-4'

Lab Sample ID: 880-48886-46
Matrix: Solid
Date Collected: 09/20/24 13:50
Date Received: 09/24/24 13:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:07	09/25/24 03:25	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/24/24 15:07	09/25/24 03:25	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:07	09/25/24 03:25	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:07	09/25/24 03:25	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:07	09/25/24 03:25	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:07	09/25/24 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*09/24/24 15:07*	*09/25/24 03:25*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 15:07*	*09/25/24 03:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			09/25/24 03:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**124**		50.0	15.1	mg/Kg			09/26/24 01:43	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	**47.8**	**J**	50.0	14.5	mg/Kg		09/24/24 14:26	09/26/24 01:43	1
Diesel Range Organics (Over C10-C28)	**76.6**		50.0	15.1	mg/Kg		09/24/24 14:26	09/26/24 01:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:26	09/26/24 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/26/24 01:43*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/26/24 01:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**485**		4.99	0.394	mg/Kg			09/26/24 01:00	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-111-4'

Date Collected: 09/20/24 13:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-47

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:07	09/25/24 03:46	1
Toluene	**0.00295**		0.00200	0.00200	mg/Kg		09/24/24 15:07	09/25/24 03:46	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:07	09/25/24 03:46	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:07	09/25/24 03:46	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:07	09/25/24 03:46	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/24/24 15:07	09/25/24 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*09/24/24 15:07*	*09/25/24 03:46*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 15:07*	*09/25/24 03:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00295**	**J**	0.00399	0.00228	mg/Kg			09/25/24 03:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**101**		50.0	15.1	mg/Kg			09/26/24 02:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**26.1**	**J**	50.0	14.5	mg/Kg		09/24/24 14:26	09/26/24 02:03	1
Diesel Range Organics (Over C10-C28)	**74.6**		50.0	15.1	mg/Kg		09/24/24 14:26	09/26/24 02:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:26	09/26/24 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*09/24/24 14:26*	*09/26/24 02:03*	*1*
o-Terphenyl	*115*		*70 - 130*	*09/24/24 14:26*	*09/26/24 02:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**394**		5.05	0.399	mg/Kg			09/26/24 01:05	1

Client Sample ID: B-112-4'

Date Collected: 09/20/24 14:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-48

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		09/24/24 15:07	09/25/24 04:06	1
Toluene	**0.00403**		0.00202	0.00202	mg/Kg		09/24/24 15:07	09/25/24 04:06	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/24/24 15:07	09/25/24 04:06	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:07	09/25/24 04:06	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/24/24 15:07	09/25/24 04:06	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		09/24/24 15:07	09/25/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*09/24/24 15:07*	*09/25/24 04:06*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/24/24 15:07*	*09/25/24 04:06*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-112-4'

Date Collected: 09/20/24 14:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-48

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00403**		0.00403	0.00230	mg/Kg			09/25/24 04:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**121**		49.9	15.1	mg/Kg			09/26/24 02:21	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	**48.0**	**J**	49.9	14.5	mg/Kg		09/24/24 14:26	09/26/24 02:21	1
Diesel Range Organics (Over C10-C28)	**73.4**		49.9	15.1	mg/Kg		09/24/24 14:26	09/26/24 02:21	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/24/24 14:26	09/26/24 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*09/24/24 14:26*	*09/26/24 02:21*	*1*
o-Terphenyl	*129*		*70 - 130*	*09/24/24 14:26*	*09/26/24 02:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1340**		24.9	1.97	mg/Kg			09/26/24 01:11	5

Client Sample ID: B-113-4'

Date Collected: 09/20/24 14:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-49

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		09/24/24 15:07	09/25/24 04:27	1
Toluene	**0.00400**		0.00199	0.00199	mg/Kg		09/24/24 15:07	09/25/24 04:27	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/24/24 15:07	09/25/24 04:27	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:07	09/25/24 04:27	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		09/24/24 15:07	09/25/24 04:27	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		09/24/24 15:07	09/25/24 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*09/24/24 15:07*	*09/25/24 04:27*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/24/24 15:07*	*09/25/24 04:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00400**		0.00398	0.00228	mg/Kg			09/25/24 04:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**118**		49.9	15.1	mg/Kg			09/26/24 01:04	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	**27.6**	**J**	49.9	14.5	mg/Kg		09/24/24 14:26	09/26/24 01:04	1
Diesel Range Organics (Over C10-C28)	**90.4**		49.9	15.1	mg/Kg		09/24/24 14:26	09/26/24 01:04	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-113-4'

Date Collected: 09/20/24 14:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-49

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/24/24 14:26	09/26/24 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*09/24/24 14:26*	*09/26/24 01:04*	*1*
o-Terphenyl	*125*		*70 - 130*	*09/24/24 14:26*	*09/26/24 01:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**792**		5.04	0.398	mg/Kg			09/26/24 01:16	1

Client Sample ID: B-114-4'

Date Collected: 09/20/24 14:10
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-50

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:07	09/25/24 04:47	1
Toluene	**0.00805**		0.00200	0.00200	mg/Kg		09/24/24 15:07	09/25/24 04:47	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:07	09/25/24 04:47	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:07	09/25/24 04:47	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		09/24/24 15:07	09/25/24 04:47	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		09/24/24 15:07	09/25/24 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*09/24/24 15:07*	*09/25/24 04:47*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/24/24 15:07*	*09/25/24 04:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00805**		0.00401	0.00229	mg/Kg			09/25/24 04:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**173**		49.8	15.1	mg/Kg			09/25/24 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**41.8**	**J**	49.8	14.5	mg/Kg		09/24/24 14:26	09/25/24 23:06	1
Diesel Range Organics (Over C10-C28)	**131**		49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 23:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		09/24/24 14:26	09/25/24 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*09/24/24 14:26*	*09/25/24 23:06*	*1*
o-Terphenyl	*126*		*70 - 130*	*09/24/24 14:26*	*09/25/24 23:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**151**		5.05	0.399	mg/Kg			09/26/24 01:21	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-48886-1	B-63-4'	109	103										
880-48886-1 MS	B-63-4'	108	98										
880-48886-1 MSD	B-63-4'	103	101										
880-48886-2	B-64-4'	106	102										
880-48886-3	B-65-4'	107	102										
880-48886-4	B-66-4'	106	103										
880-48886-5	B-67-4'	107	103										
880-48886-6	B-68-4'	106	100										
880-48886-7	B-69-4'	106	102										
880-48886-8	B-70-4'	103	101										
880-48886-9	B-71-4'	106	101										
880-48886-10	B-74-4'	108	100										
880-48886-11	B-75-4'	110	102										
880-48886-12	B-76-4'	106	102										
880-48886-13	B-77-4'	109	102										
880-48886-14	B-78-4'	105	102										
880-48886-15	B-79-4'	111	102										
880-48886-16	B-80-4'	105	102										
880-48886-17	B-81-4'	110	101										
880-48886-18	B-82-4'	104	100										
880-48886-19	B-83-4'	107	100										
880-48886-20	B-84-4'	107	100										
880-48886-21	B-85-4'	81	96										
880-48886-21 MS	B-85-4'	100	105										
880-48886-21 MSD	B-85-4'	91	110										
880-48886-22	B-86-4'	84	98										
880-48886-23	B-87-4'	86	100										
880-48886-24	B-88-4'	84	101										
880-48886-25	B-89-4'	92	93										
880-48886-26	B-90-4'	87	101										
880-48886-27	B-91-4'	85	101										
880-48886-28	B-92-4'	85	98										
880-48886-29	B-93-4'	87	99										
880-48886-30	B-94-4'	87	100										
880-48886-31	B-95-4'	79	96										
880-48886-32	B-96-4'	88	100										
880-48886-33	B-97-4'	86	99										
880-48886-34	B-98-4'	88	100										
880-48886-35	B-99-4'	88	99										
880-48886-36	B-100-4'	95	92										
880-48886-37	B-101-4'	89	102										
880-48886-38	B-102-4'	109	100										
880-48886-39	B-103-4'	92	102										
880-48886-40	B-104-4'	87	101										
880-48886-41	B-105-4'	95	97										
880-48886-41 MS	B-105-4'	107	94										
880-48886-41 MSD	B-105-4'	107	90										
880-48886-42	B-106-4'	110	94										
880-48886-43	B-107-4'	117	98										

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 880-48886-1
Project/Site: WLU 41 SDG: Lea 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)
880-48886-44	B-108-4'	110	98
880-48886-45	B-109-4'	119	99
880-48886-46	B-110-4'	128	101
880-48886-47	B-111-4'	127	101
880-48886-48	B-112-4'	129	105
880-48886-49	B-113-4'	128	104
880-48886-50	B-114-4'	122	103
LCS 880-91653/1-A	Lab Control Sample	107	98
LCS 880-91656/1-A	Lab Control Sample	94	107
LCS 880-91658/1-A	Lab Control Sample	94	87
LCSD 880-91653/2-A	Lab Control Sample Dup	98	101
LCSD 880-91656/2-A	Lab Control Sample Dup	88	107
LCSD 880-91658/2-A	Lab Control Sample Dup	113	88
MB 880-91592/5-A	Method Blank	108	102
MB 880-91604/5-A	Method Blank	146 S1+	88
MB 880-91636/5-A	Method Blank	80	101
MB 880-91653/5-A	Method Blank	107	101
MB 880-91656/5-A	Method Blank	77	100
MB 880-91658/5-A	Method Blank	213 S1+	126

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)
880-48886-1	B-63-4'	135 S1+	133 S1+
880-48886-2	B-64-4'	110	101
880-48886-3	B-65-4'	118	109
880-48886-4	B-66-4'	119	111
880-48886-5	B-67-4'	110	98
880-48886-6	B-68-4'	106	105
880-48886-7	B-69-4'	100	95
880-48886-8	B-70-4'	118	108
880-48886-9	B-71-4'	125	126
880-48886-10	B-74-4'	112	109
880-48886-11	B-75-4'	112	107
880-48886-12	B-76-4'	104	100
880-48886-13	B-77-4'	114	110
880-48886-14	B-78-4'	111	103
880-48886-15	B-79-4'	115	120
880-48886-15 MS	B-79-4'	118	106
880-48886-15 MSD	B-79-4'	116	108
880-48886-16	B-80-4'	112	116
880-48886-17	B-81-4'	118	129
880-48886-18	B-82-4'	117	128
880-48886-19	B-83-4'	119	125

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 880-48886-1
Project/Site: WLU 41 SDG: Lea County, NM

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-48886-20	B-84-4'	121	133 S1+										
880-48886-21	B-85-4'	114	119										
880-48886-22	B-86-4'	122	130										
880-48886-23	B-87-4'	239 S1+	251 S1+										
880-48886-24	B-88-4'	126	129										
880-48886-25	B-89-4'	122	125										
880-48886-26	B-90-4'	129	129										
880-48886-27	B-91-4'	121	124										
880-48886-28	B-92-4'	85	91										
880-48886-29	B-93-4'	123	126										
880-48886-30	B-94-4'	144 S1+	166 S1+										
880-48886-31	B-95-4'	145 S1+	160 S1+										
880-48886-32	B-96-4'	112	118										
880-48886-33	B-97-4'	163 S1+	168 S1+										
880-48886-34	B-98-4'	108	116										
880-48886-35	B-99-4'	144 S1+	156 S1+										
880-48886-35 MS	B-99-4'	149 S1+	142 S1+										
880-48886-35 MSD	B-99-4'	132 S1+	124										
880-48886-36	B-100-4'	132 S1+	143 S1+										
880-48886-37	B-101-4'	132 S1+	138 S1+										
880-48886-38	B-102-4'	123	130										
880-48886-39	B-103-4'	116	126										
880-48886-40	B-104-4'	127	129										
880-48886-41	B-105-4'	123	123										
880-48886-42	B-106-4'	126	121										
880-48886-43	B-107-4'	138 S1+	134 S1+										
880-48886-44	B-108-4'	139 S1+	141 S1+										
880-48886-45	B-109-4'	136 S1+	147 S1+										
880-48886-46	B-110-4'	131 S1+	145 S1+										
880-48886-47	B-111-4'	109	115										
880-48886-48	B-112-4'	126	129										
880-48886-49	B-113-4'	125	125										
880-48886-50	B-114-4'	130	126										
LCS 880-91643/2-A	Lab Control Sample	94	85										
LCS 880-91644/2-A	Lab Control Sample	92	85										
LCS 880-91645/2-A	Lab Control Sample	106	106										
LCSD 880-91643/3-A	Lab Control Sample Dup	80	73										
LCSD 880-91644/3-A	Lab Control Sample Dup	85	84										
LCSD 880-91645/3-A	Lab Control Sample Dup	83	81										
MB 880-91643/1-A	Method Blank	117	116										
MB 880-91644/1-A	Method Blank	130	139 S1+										
MB 880-91645/1-A	Method Blank	130	142 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-91592/5-A
Matrix: Solid
Analysis Batch: 91583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 08:58	09/24/24 11:11	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 08:58	09/24/24 11:11	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 08:58	09/24/24 11:11	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 08:58	09/24/24 11:11	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 08:58	09/24/24 11:11	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 08:58	09/24/24 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/24/24 08:58*	*09/24/24 11:11*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/24/24 08:58*	*09/24/24 11:11*	*1*

Lab Sample ID: MB 880-91604/5-A
Matrix: Solid
Analysis Batch: 91586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 10:25	09/24/24 13:37	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 10:25	09/24/24 13:37	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 10:25	09/24/24 13:37	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 10:25	09/24/24 13:37	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 10:25	09/24/24 13:37	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 10:25	09/24/24 13:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*09/24/24 10:25*	*09/24/24 13:37*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/24/24 10:25*	*09/24/24 13:37*	*1*

Lab Sample ID: MB 880-91636/5-A
Matrix: Solid
Analysis Batch: 91638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 12:51	09/24/24 15:43	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 12:51	09/24/24 15:43	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 12:51	09/24/24 15:43	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 12:51	09/24/24 15:43	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 12:51	09/24/24 15:43	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 12:51	09/24/24 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*09/24/24 12:51*	*09/24/24 15:43*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 12:51*	*09/24/24 15:43*	*1*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-91653/5-A
Matrix: Solid
Analysis Batch: 91583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91653

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:04	09/24/24 22:14	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:04	09/24/24 22:14	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:04	09/24/24 22:14	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:04	09/24/24 22:14	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:04	09/24/24 22:14	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:04	09/24/24 22:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/24/24 15:04*	*09/24/24 22:14*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/24/24 15:04*	*09/24/24 22:14*	*1*

Lab Sample ID: LCS 880-91653/1-A
Matrix: Solid
Analysis Batch: 91583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91653

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08826		mg/Kg		88	70 - 130
Toluene	0.100	0.08195		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08081		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.200	0.1726		mg/Kg		86	70 - 130
o-Xylene	0.100	0.08733		mg/Kg		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-91653/2-A
Matrix: Solid
Analysis Batch: 91583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91653

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09314		mg/Kg		93	70 - 130	5	35
Toluene	0.100	0.08696		mg/Kg		87	70 - 130	6	35
Ethylbenzene	0.100	0.08546		mg/Kg		85	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1827		mg/Kg		91	70 - 130	6	35
o-Xylene	0.100	0.09258		mg/Kg		93	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-48886-1 MS
Matrix: Solid
Analysis Batch: 91583

Client Sample ID: B-63-4'
Prep Type: Total/NA
Prep Batch: 91653

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.0996	0.08019		mg/Kg		81	70 - 130
Toluene	0.00421		0.0996	0.07743		mg/Kg		74	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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

Lab Sample ID: 880-48886-1 MS
Matrix: Solid
Analysis Batch: 91583

Client Sample ID: B-63-4'
Prep Type: Total/NA
Prep Batch: 91653

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00109	U	0.0996	0.07115		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.199	0.1499		mg/Kg		75	70 - 130
o-Xylene	<0.00159	U	0.0996	0.07497		mg/Kg		75	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-48886-1 MSD
Matrix: Solid
Analysis Batch: 91583

Client Sample ID: B-63-4'
Prep Type: Total/NA
Prep Batch: 91653

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.0994	0.08239		mg/Kg		83	70 - 130	3	35
Toluene	0.00421		0.0994	0.07857		mg/Kg		75	70 - 130	1	35
Ethylbenzene	<0.00109	U	0.0994	0.07193		mg/Kg		72	70 - 130	1	35
m-Xylene & p-Xylene	<0.00229	U	0.199	0.1513		mg/Kg		76	70 - 130	1	35
o-Xylene	<0.00159	U	0.0994	0.07565		mg/Kg		76	70 - 130	1	35

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

Lab Sample ID: MB 880-91656/5-A
Matrix: Solid
Analysis Batch: 91638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:06	09/25/24 02:24	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:06	09/25/24 02:24	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:06	09/25/24 02:24	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:06	09/25/24 02:24	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:06	09/25/24 02:24	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:06	09/25/24 02:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*09/24/24 15:06*	*09/25/24 02:24*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/24/24 15:06*	*09/25/24 02:24*	*1*

Lab Sample ID: LCS 880-91656/1-A
Matrix: Solid
Analysis Batch: 91638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1024		mg/Kg		102	70 - 130
Toluene	0.100	0.1048		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.1959		mg/Kg		98	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-91656/1-A
Matrix: Solid
Analysis Batch: 91638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91656

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09569		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-91656/2-A
Matrix: Solid
Analysis Batch: 91638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09248		mg/Kg		92	70 - 130	10	35
Toluene			0.100	0.09245		mg/Kg		92	70 - 130	13	35
Ethylbenzene			0.100	0.09299		mg/Kg		93	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.1685		mg/Kg		84	70 - 130	15	35
o-Xylene			0.100	0.08180		mg/Kg		82	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-48886-21 MS
Matrix: Solid
Analysis Batch: 91638

Client Sample ID: B-85-4'
Prep Type: Total/NA
Prep Batch: 91656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00139	U	0.0996	0.09190		mg/Kg		92	70 - 130		
Toluene	<0.00200	U	0.0996	0.09548		mg/Kg		96	70 - 130		
Ethylbenzene	<0.00109	U	0.0996	0.09657		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene	<0.00229	U	0.199	0.1758		mg/Kg		88	70 - 130		
o-Xylene	<0.00159	U	0.0996	0.08629		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-48886-21 MSD
Matrix: Solid
Analysis Batch: 91638

Client Sample ID: B-85-4'
Prep Type: Total/NA
Prep Batch: 91656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.0994	0.08622		mg/Kg		87	70 - 130	6	35
Toluene	<0.00200	U	0.0994	0.08360		mg/Kg		84	70 - 130	13	35
Ethylbenzene	<0.00109	U	0.0994	0.08396		mg/Kg		84	70 - 130	14	35
m-Xylene & p-Xylene	<0.00229	U	0.199	0.1520		mg/Kg		76	70 - 130	15	35
o-Xylene	<0.00159	U	0.0994	0.07367		mg/Kg		74	70 - 130	16	35

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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

Lab Sample ID: 880-48886-21 MSD
Matrix: Solid
Analysis Batch: 91638

Client Sample ID: B-85-4'
Prep Type: Total/NA
Prep Batch: 91656

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: MB 880-91658/5-A
Matrix: Solid
Analysis Batch: 91586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/24/24 15:07	09/25/24 01:14	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/24/24 15:07	09/25/24 01:14	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/24/24 15:07	09/25/24 01:14	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:07	09/25/24 01:14	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/24/24 15:07	09/25/24 01:14	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/24/24 15:07	09/25/24 01:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	213	S1+	70 - 130	09/24/24 15:07	09/25/24 01:14	1
1,4-Difluorobenzene (Surr)	126		70 - 130	09/24/24 15:07	09/25/24 01:14	1

Lab Sample ID: LCS 880-91658/1-A
Matrix: Solid
Analysis Batch: 91586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91658

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08622		mg/Kg		86	70 - 130		
Toluene			0.100	0.08540		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.1068		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.1817		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.07489		mg/Kg		75	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-91658/2-A
Matrix: Solid
Analysis Batch: 91586

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91658

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08718		mg/Kg		87	70 - 130	1	35
Toluene			0.100	0.08674		mg/Kg		87	70 - 130	2	35
Ethylbenzene			0.100	0.1085		mg/Kg		109	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1967		mg/Kg		98	70 - 130	8	35
o-Xylene			0.100	0.08284		mg/Kg		83	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-91658/2-A
Matrix: Solid
Analysis Batch: 91586

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91658

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

Lab Sample ID: 880-48886-41 MS
Matrix: Solid
Analysis Batch: 91586

Client Sample ID: B-105-4'
Prep Type: Total/NA
Prep Batch: 91658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.0996	0.07534		mg/Kg		76	70 - 130
Toluene	0.00860	F1	0.0996	0.07059	F1	mg/Kg		62	70 - 130
Ethylbenzene	<0.00109	U F1	0.0996	0.07240		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00229	U F1	0.199	0.1307	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00159	U F1	0.0996	0.05853	F1	mg/Kg		59	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-48886-41 MSD
Matrix: Solid
Analysis Batch: 91586

Client Sample ID: B-105-4'
Prep Type: Total/NA
Prep Batch: 91658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.0994	0.07352		mg/Kg		74	70 - 130	2	35
Toluene	0.00860	F1	0.0994	0.07492	F1	mg/Kg		67	70 - 130	6	35
Ethylbenzene	<0.00109	U F1	0.0994	0.06533	F1	mg/Kg		66	70 - 130	10	35
m-Xylene & p-Xylene	<0.00229	U F1	0.199	0.1301	F1	mg/Kg		65	70 - 130	0	35
o-Xylene	<0.00159	U F1	0.0994	0.05860	F1	mg/Kg		59	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-91643/1-A
Matrix: Solid
Analysis Batch: 91678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/24/24 14:20	09/25/24 08:13	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:20	09/25/24 08:13	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:20	09/25/24 08:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	09/24/24 14:20	09/25/24 08:13	1
o-Terphenyl	116		70 - 130	09/24/24 14:20	09/25/24 08:13	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-91643/2-A
Matrix: Solid
Analysis Batch: 91678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91643

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	662.1	*-	mg/Kg		66	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: LCSD 880-91643/3-A
Matrix: Solid
Analysis Batch: 91678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91643

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1018		mg/Kg		102	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	687.9	*-	mg/Kg		69	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: MB 880-91644/1-A
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/24/24 14:23	09/25/24 08:13	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 08:13	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:23	09/25/24 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*09/24/24 14:23*	*09/25/24 08:13*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*09/24/24 14:23*	*09/25/24 08:13*	*1*

Lab Sample ID: LCS 880-91644/2-A
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91644

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	910.3		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	851.2		mg/Kg		85	70 - 130		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-91644/2-A
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91644

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: LCSD 880-91644/3-A
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91644

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	839.9		mg/Kg		84	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	740.1		mg/Kg		74	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 880-48886-15 MS
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: B-79-4'
Prep Type: Total/NA
Prep Batch: 91644

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	40.9	J	998	969.6		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	67.2		998	969.1		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 880-48886-15 MSD
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: B-79-4'
Prep Type: Total/NA
Prep Batch: 91644

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	40.9	J	998	984.2		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	67.2		998	985.1		mg/Kg		92	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	108		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-91645/1-A
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/24/24 14:26	09/25/24 19:33	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:26	09/25/24 19:33	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/24/24 14:26	09/25/24 19:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*09/24/24 14:26*	*09/25/24 19:33*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*09/24/24 14:26*	*09/25/24 19:33*	*1*

Lab Sample ID: LCS 880-91645/2-A
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1159		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1128		mg/Kg		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Lab Sample ID: LCSD 880-91645/3-A
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91645

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1030		mg/Kg		103	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	965.6		mg/Kg		97	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: 880-48886-35 MS
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: B-99-4'
Prep Type: Total/NA
Prep Batch: 91645

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	24.9	J	999	1109		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	111		999	1108		mg/Kg		100	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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

Lab Sample ID: 880-48886-35 MS
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: B-99-4'
Prep Type: Total/NA
Prep Batch: 91645

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	142	S1+	70 - 130

Lab Sample ID: 880-48886-35 MSD
Matrix: Solid
Analysis Batch: 91680

Client Sample ID: B-99-4'
Prep Type: Total/NA
Prep Batch: 91645

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	24.9	J	999	1074		mg/Kg		105	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	111		999	981.2		mg/Kg		87	70 - 130	12	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	124		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-91641/1-A
Matrix: Solid
Analysis Batch: 91649

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			09/24/24 21:20	1

Lab Sample ID: LCS 880-91641/2-A
Matrix: Solid
Analysis Batch: 91649

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.3		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-91641/3-A
Matrix: Solid
Analysis Batch: 91649

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.3		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-48886-1 MS
Matrix: Solid
Analysis Batch: 91649

Client Sample ID: B-63-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	138		252	376.5		mg/Kg		95	90 - 110		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-48886-1 MSD
Matrix: Solid
Analysis Batch: 91649

Client Sample ID: B-63-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	138		252	375.1		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-48886-11 MS
Matrix: Solid
Analysis Batch: 91649

Client Sample ID: B-75-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	478	F1	250	702.4		mg/Kg		90	90 - 110

Lab Sample ID: 880-48886-11 MSD
Matrix: Solid
Analysis Batch: 91649

Client Sample ID: B-75-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	478	F1	250	700.4	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: MB 880-91642/1-A
Matrix: Solid
Analysis Batch: 91659

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			09/24/24 16:07	1

Lab Sample ID: LCS 880-91642/2-A
Matrix: Solid
Analysis Batch: 91659

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.1		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-91642/3-A
Matrix: Solid
Analysis Batch: 91659

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	242.6		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-48886-21 MS
Matrix: Solid
Analysis Batch: 91659

Client Sample ID: B-85-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	73.4		252	309.9		mg/Kg		94	90 - 110

Lab Sample ID: 880-48886-21 MSD
Matrix: Solid
Analysis Batch: 91659

Client Sample ID: B-85-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	73.4		252	313.0		mg/Kg		95	90 - 110	1	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-48886-31 MS
Matrix: Solid
Analysis Batch: 91659

Client Sample ID: B-95-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	178		251	409.2		mg/Kg		92	90 - 110

Lab Sample ID: 880-48886-31 MSD
Matrix: Solid
Analysis Batch: 91659

Client Sample ID: B-95-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	178		251	413.4		mg/Kg		94	90 - 110	1	20

Lab Sample ID: MB 880-91773/1-A
Matrix: Solid
Analysis Batch: 91780

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			09/25/24 23:55	1

Lab Sample ID: LCS 880-91773/2-A
Matrix: Solid
Analysis Batch: 91780

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.6		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-91773/3-A
Matrix: Solid
Analysis Batch: 91780

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	234.7		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 880-48886-41 MS
Matrix: Solid
Analysis Batch: 91780

Client Sample ID: B-105-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8.57		252	243.3		mg/Kg		93	90 - 110

Lab Sample ID: 880-48886-41 MSD
Matrix: Solid
Analysis Batch: 91780

Client Sample ID: B-105-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.57		252	244.2		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 91583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-1	B-63-4'	Total/NA	Solid	8021B	91653
880-48886-2	B-64-4'	Total/NA	Solid	8021B	91653
880-48886-3	B-65-4'	Total/NA	Solid	8021B	91653
880-48886-4	B-66-4'	Total/NA	Solid	8021B	91653
880-48886-5	B-67-4'	Total/NA	Solid	8021B	91653
880-48886-6	B-68-4'	Total/NA	Solid	8021B	91653
880-48886-7	B-69-4'	Total/NA	Solid	8021B	91653
880-48886-8	B-70-4'	Total/NA	Solid	8021B	91653
880-48886-9	B-71-4'	Total/NA	Solid	8021B	91653
880-48886-10	B-74-4'	Total/NA	Solid	8021B	91653
880-48886-11	B-75-4'	Total/NA	Solid	8021B	91653
880-48886-12	B-76-4'	Total/NA	Solid	8021B	91653
880-48886-13	B-77-4'	Total/NA	Solid	8021B	91653
880-48886-14	B-78-4'	Total/NA	Solid	8021B	91653
880-48886-15	B-79-4'	Total/NA	Solid	8021B	91653
880-48886-16	B-80-4'	Total/NA	Solid	8021B	91653
880-48886-17	B-81-4'	Total/NA	Solid	8021B	91653
880-48886-18	B-82-4'	Total/NA	Solid	8021B	91653
880-48886-19	B-83-4'	Total/NA	Solid	8021B	91653
880-48886-20	B-84-4'	Total/NA	Solid	8021B	91653
MB 880-91592/5-A	Method Blank	Total/NA	Solid	8021B	91592
MB 880-91653/5-A	Method Blank	Total/NA	Solid	8021B	91653
LCS 880-91653/1-A	Lab Control Sample	Total/NA	Solid	8021B	91653
LCSD 880-91653/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91653
880-48886-1 MS	B-63-4'	Total/NA	Solid	8021B	91653
880-48886-1 MSD	B-63-4'	Total/NA	Solid	8021B	91653

Analysis Batch: 91586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-41	B-105-4'	Total/NA	Solid	8021B	91658
880-48886-42	B-106-4'	Total/NA	Solid	8021B	91658
880-48886-43	B-107-4'	Total/NA	Solid	8021B	91658
880-48886-44	B-108-4'	Total/NA	Solid	8021B	91658
880-48886-45	B-109-4'	Total/NA	Solid	8021B	91658
880-48886-46	B-110-4'	Total/NA	Solid	8021B	91658
880-48886-47	B-111-4'	Total/NA	Solid	8021B	91658
880-48886-48	B-112-4'	Total/NA	Solid	8021B	91658
880-48886-49	B-113-4'	Total/NA	Solid	8021B	91658
880-48886-50	B-114-4'	Total/NA	Solid	8021B	91658
MB 880-91604/5-A	Method Blank	Total/NA	Solid	8021B	91604
MB 880-91658/5-A	Method Blank	Total/NA	Solid	8021B	91658
LCS 880-91658/1-A	Lab Control Sample	Total/NA	Solid	8021B	91658
LCSD 880-91658/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91658
880-48886-41 MS	B-105-4'	Total/NA	Solid	8021B	91658
880-48886-41 MSD	B-105-4'	Total/NA	Solid	8021B	91658

Prep Batch: 91592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-91592/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

GC VOA

Prep Batch: 91604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-91604/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 91636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-91636/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 91638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-21	B-85-4'	Total/NA	Solid	8021B	91656
880-48886-22	B-86-4'	Total/NA	Solid	8021B	91656
880-48886-23	B-87-4'	Total/NA	Solid	8021B	91656
880-48886-24	B-88-4'	Total/NA	Solid	8021B	91656
880-48886-25	B-89-4'	Total/NA	Solid	8021B	91656
880-48886-26	B-90-4'	Total/NA	Solid	8021B	91656
880-48886-27	B-91-4'	Total/NA	Solid	8021B	91656
880-48886-28	B-92-4'	Total/NA	Solid	8021B	91656
880-48886-29	B-93-4'	Total/NA	Solid	8021B	91656
880-48886-30	B-94-4'	Total/NA	Solid	8021B	91656
880-48886-31	B-95-4'	Total/NA	Solid	8021B	91656
880-48886-32	B-96-4'	Total/NA	Solid	8021B	91656
880-48886-33	B-97-4'	Total/NA	Solid	8021B	91656
880-48886-34	B-98-4'	Total/NA	Solid	8021B	91656
880-48886-35	B-99-4'	Total/NA	Solid	8021B	91656
880-48886-36	B-100-4'	Total/NA	Solid	8021B	91656
880-48886-37	B-101-4'	Total/NA	Solid	8021B	91656
880-48886-38	B-102-4'	Total/NA	Solid	8021B	91656
880-48886-39	B-103-4'	Total/NA	Solid	8021B	91656
880-48886-40	B-104-4'	Total/NA	Solid	8021B	91656
MB 880-91636/5-A	Method Blank	Total/NA	Solid	8021B	91636
MB 880-91656/5-A	Method Blank	Total/NA	Solid	8021B	91656
LCS 880-91656/1-A	Lab Control Sample	Total/NA	Solid	8021B	91656
LCSD 880-91656/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91656
880-48886-21 MS	B-85-4'	Total/NA	Solid	8021B	91656
880-48886-21 MSD	B-85-4'	Total/NA	Solid	8021B	91656

Prep Batch: 91653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-1	B-63-4'	Total/NA	Solid	5030B	
880-48886-2	B-64-4'	Total/NA	Solid	5030B	
880-48886-3	B-65-4'	Total/NA	Solid	5030B	
880-48886-4	B-66-4'	Total/NA	Solid	5030B	
880-48886-5	B-67-4'	Total/NA	Solid	5030B	
880-48886-6	B-68-4'	Total/NA	Solid	5030B	
880-48886-7	B-69-4'	Total/NA	Solid	5030B	
880-48886-8	B-70-4'	Total/NA	Solid	5030B	
880-48886-9	B-71-4'	Total/NA	Solid	5030B	
880-48886-10	B-74-4'	Total/NA	Solid	5030B	
880-48886-11	B-75-4'	Total/NA	Solid	5030B	
880-48886-12	B-76-4'	Total/NA	Solid	5030B	
880-48886-13	B-77-4'	Total/NA	Solid	5030B	
880-48886-14	B-78-4'	Total/NA	Solid	5030B	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 91653 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-15	B-79-4'	Total/NA	Solid	5030B	
880-48886-16	B-80-4'	Total/NA	Solid	5030B	
880-48886-17	B-81-4'	Total/NA	Solid	5030B	
880-48886-18	B-82-4'	Total/NA	Solid	5030B	
880-48886-19	B-83-4'	Total/NA	Solid	5030B	
880-48886-20	B-84-4'	Total/NA	Solid	5030B	
MB 880-91653/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91653/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91653/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-48886-1 MS	B-63-4'	Total/NA	Solid	5030B	
880-48886-1 MSD	B-63-4'	Total/NA	Solid	5030B	

Prep Batch: 91656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-21	B-85-4'	Total/NA	Solid	5030B	
880-48886-22	B-86-4'	Total/NA	Solid	5030B	
880-48886-23	B-87-4'	Total/NA	Solid	5030B	
880-48886-24	B-88-4'	Total/NA	Solid	5030B	
880-48886-25	B-89-4'	Total/NA	Solid	5030B	
880-48886-26	B-90-4'	Total/NA	Solid	5030B	
880-48886-27	B-91-4'	Total/NA	Solid	5030B	
880-48886-28	B-92-4'	Total/NA	Solid	5030B	
880-48886-29	B-93-4'	Total/NA	Solid	5030B	
880-48886-30	B-94-4'	Total/NA	Solid	5030B	
880-48886-31	B-95-4'	Total/NA	Solid	5030B	
880-48886-32	B-96-4'	Total/NA	Solid	5030B	
880-48886-33	B-97-4'	Total/NA	Solid	5030B	
880-48886-34	B-98-4'	Total/NA	Solid	5030B	
880-48886-35	B-99-4'	Total/NA	Solid	5030B	
880-48886-36	B-100-4'	Total/NA	Solid	5030B	
880-48886-37	B-101-4'	Total/NA	Solid	5030B	
880-48886-38	B-102-4'	Total/NA	Solid	5030B	
880-48886-39	B-103-4'	Total/NA	Solid	5030B	
880-48886-40	B-104-4'	Total/NA	Solid	5030B	
MB 880-91656/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91656/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91656/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-48886-21 MS	B-85-4'	Total/NA	Solid	5030B	
880-48886-21 MSD	B-85-4'	Total/NA	Solid	5030B	

Prep Batch: 91658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-41	B-105-4'	Total/NA	Solid	5030B	
880-48886-42	B-106-4'	Total/NA	Solid	5030B	
880-48886-43	B-107-4'	Total/NA	Solid	5030B	
880-48886-44	B-108-4'	Total/NA	Solid	5030B	
880-48886-45	B-109-4'	Total/NA	Solid	5030B	
880-48886-46	B-110-4'	Total/NA	Solid	5030B	
880-48886-47	B-111-4'	Total/NA	Solid	5030B	
880-48886-48	B-112-4'	Total/NA	Solid	5030B	
880-48886-49	B-113-4'	Total/NA	Solid	5030B	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 91658 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-50	B-114-4'	Total/NA	Solid	5030B	
MB 880-91658/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-91658/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-91658/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-48886-41 MS	B-105-4'	Total/NA	Solid	5030B	
880-48886-41 MSD	B-105-4'	Total/NA	Solid	5030B	

Analysis Batch: 91746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-1	B-63-4'	Total/NA	Solid	Total BTEX	
880-48886-2	B-64-4'	Total/NA	Solid	Total BTEX	
880-48886-3	B-65-4'	Total/NA	Solid	Total BTEX	
880-48886-4	B-66-4'	Total/NA	Solid	Total BTEX	
880-48886-5	B-67-4'	Total/NA	Solid	Total BTEX	
880-48886-6	B-68-4'	Total/NA	Solid	Total BTEX	
880-48886-7	B-69-4'	Total/NA	Solid	Total BTEX	
880-48886-8	B-70-4'	Total/NA	Solid	Total BTEX	
880-48886-9	B-71-4'	Total/NA	Solid	Total BTEX	
880-48886-10	B-74-4'	Total/NA	Solid	Total BTEX	
880-48886-11	B-75-4'	Total/NA	Solid	Total BTEX	
880-48886-12	B-76-4'	Total/NA	Solid	Total BTEX	
880-48886-13	B-77-4'	Total/NA	Solid	Total BTEX	
880-48886-14	B-78-4'	Total/NA	Solid	Total BTEX	
880-48886-15	B-79-4'	Total/NA	Solid	Total BTEX	
880-48886-16	B-80-4'	Total/NA	Solid	Total BTEX	
880-48886-17	B-81-4'	Total/NA	Solid	Total BTEX	
880-48886-18	B-82-4'	Total/NA	Solid	Total BTEX	
880-48886-19	B-83-4'	Total/NA	Solid	Total BTEX	
880-48886-20	B-84-4'	Total/NA	Solid	Total BTEX	
880-48886-21	B-85-4'	Total/NA	Solid	Total BTEX	
880-48886-22	B-86-4'	Total/NA	Solid	Total BTEX	
880-48886-23	B-87-4'	Total/NA	Solid	Total BTEX	
880-48886-24	B-88-4'	Total/NA	Solid	Total BTEX	
880-48886-25	B-89-4'	Total/NA	Solid	Total BTEX	
880-48886-26	B-90-4'	Total/NA	Solid	Total BTEX	
880-48886-27	B-91-4'	Total/NA	Solid	Total BTEX	
880-48886-28	B-92-4'	Total/NA	Solid	Total BTEX	
880-48886-29	B-93-4'	Total/NA	Solid	Total BTEX	
880-48886-30	B-94-4'	Total/NA	Solid	Total BTEX	
880-48886-31	B-95-4'	Total/NA	Solid	Total BTEX	
880-48886-32	B-96-4'	Total/NA	Solid	Total BTEX	
880-48886-33	B-97-4'	Total/NA	Solid	Total BTEX	
880-48886-34	B-98-4'	Total/NA	Solid	Total BTEX	
880-48886-35	B-99-4'	Total/NA	Solid	Total BTEX	
880-48886-36	B-100-4'	Total/NA	Solid	Total BTEX	
880-48886-37	B-101-4'	Total/NA	Solid	Total BTEX	
880-48886-38	B-102-4'	Total/NA	Solid	Total BTEX	
880-48886-39	B-103-4'	Total/NA	Solid	Total BTEX	
880-48886-40	B-104-4'	Total/NA	Solid	Total BTEX	
880-48886-41	B-105-4'	Total/NA	Solid	Total BTEX	
880-48886-42	B-106-4'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 91746 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-43	B-107-4'	Total/NA	Solid	Total BTEX	
880-48886-44	B-108-4'	Total/NA	Solid	Total BTEX	
880-48886-45	B-109-4'	Total/NA	Solid	Total BTEX	
880-48886-46	B-110-4'	Total/NA	Solid	Total BTEX	
880-48886-47	B-111-4'	Total/NA	Solid	Total BTEX	
880-48886-48	B-112-4'	Total/NA	Solid	Total BTEX	
880-48886-49	B-113-4'	Total/NA	Solid	Total BTEX	
880-48886-50	B-114-4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 91643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-1	B-63-4'	Total/NA	Solid	8015NM Prep	
880-48886-2	B-64-4'	Total/NA	Solid	8015NM Prep	
880-48886-3	B-65-4'	Total/NA	Solid	8015NM Prep	
880-48886-4	B-66-4'	Total/NA	Solid	8015NM Prep	
880-48886-5	B-67-4'	Total/NA	Solid	8015NM Prep	
880-48886-6	B-68-4'	Total/NA	Solid	8015NM Prep	
880-48886-7	B-69-4'	Total/NA	Solid	8015NM Prep	
880-48886-8	B-70-4'	Total/NA	Solid	8015NM Prep	
880-48886-9	B-71-4'	Total/NA	Solid	8015NM Prep	
880-48886-10	B-74-4'	Total/NA	Solid	8015NM Prep	
880-48886-11	B-75-4'	Total/NA	Solid	8015NM Prep	
880-48886-12	B-76-4'	Total/NA	Solid	8015NM Prep	
880-48886-13	B-77-4'	Total/NA	Solid	8015NM Prep	
880-48886-14	B-78-4'	Total/NA	Solid	8015NM Prep	
MB 880-91643/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91643/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 91644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-15	B-79-4'	Total/NA	Solid	8015NM Prep	
880-48886-16	B-80-4'	Total/NA	Solid	8015NM Prep	
880-48886-17	B-81-4'	Total/NA	Solid	8015NM Prep	
880-48886-18	B-82-4'	Total/NA	Solid	8015NM Prep	
880-48886-19	B-83-4'	Total/NA	Solid	8015NM Prep	
880-48886-20	B-84-4'	Total/NA	Solid	8015NM Prep	
880-48886-21	B-85-4'	Total/NA	Solid	8015NM Prep	
880-48886-22	B-86-4'	Total/NA	Solid	8015NM Prep	
880-48886-23	B-87-4'	Total/NA	Solid	8015NM Prep	
880-48886-24	B-88-4'	Total/NA	Solid	8015NM Prep	
880-48886-25	B-89-4'	Total/NA	Solid	8015NM Prep	
880-48886-26	B-90-4'	Total/NA	Solid	8015NM Prep	
880-48886-27	B-91-4'	Total/NA	Solid	8015NM Prep	
880-48886-28	B-92-4'	Total/NA	Solid	8015NM Prep	
880-48886-29	B-93-4'	Total/NA	Solid	8015NM Prep	
880-48886-30	B-94-4'	Total/NA	Solid	8015NM Prep	
880-48886-31	B-95-4'	Total/NA	Solid	8015NM Prep	
880-48886-32	B-96-4'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 91644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-33	B-97-4'	Total/NA	Solid	8015NM Prep	
880-48886-34	B-98-4'	Total/NA	Solid	8015NM Prep	
MB 880-91644/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91644/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91644/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-48886-15 MS	B-79-4'	Total/NA	Solid	8015NM Prep	
880-48886-15 MSD	B-79-4'	Total/NA	Solid	8015NM Prep	

Prep Batch: 91645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-35	B-99-4'	Total/NA	Solid	8015NM Prep	
880-48886-36	B-100-4'	Total/NA	Solid	8015NM Prep	
880-48886-37	B-101-4'	Total/NA	Solid	8015NM Prep	
880-48886-38	B-102-4'	Total/NA	Solid	8015NM Prep	
880-48886-39	B-103-4'	Total/NA	Solid	8015NM Prep	
880-48886-40	B-104-4'	Total/NA	Solid	8015NM Prep	
880-48886-41	B-105-4'	Total/NA	Solid	8015NM Prep	
880-48886-42	B-106-4'	Total/NA	Solid	8015NM Prep	
880-48886-43	B-107-4'	Total/NA	Solid	8015NM Prep	
880-48886-44	B-108-4'	Total/NA	Solid	8015NM Prep	
880-48886-45	B-109-4'	Total/NA	Solid	8015NM Prep	
880-48886-46	B-110-4'	Total/NA	Solid	8015NM Prep	
880-48886-47	B-111-4'	Total/NA	Solid	8015NM Prep	
880-48886-48	B-112-4'	Total/NA	Solid	8015NM Prep	
880-48886-49	B-113-4'	Total/NA	Solid	8015NM Prep	
880-48886-50	B-114-4'	Total/NA	Solid	8015NM Prep	
MB 880-91645/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91645/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91645/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-48886-35 MS	B-99-4'	Total/NA	Solid	8015NM Prep	
880-48886-35 MSD	B-99-4'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 91678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-1	B-63-4'	Total/NA	Solid	8015B NM	91643
880-48886-2	B-64-4'	Total/NA	Solid	8015B NM	91643
880-48886-3	B-65-4'	Total/NA	Solid	8015B NM	91643
880-48886-4	B-66-4'	Total/NA	Solid	8015B NM	91643
880-48886-5	B-67-4'	Total/NA	Solid	8015B NM	91643
880-48886-6	B-68-4'	Total/NA	Solid	8015B NM	91643
880-48886-7	B-69-4'	Total/NA	Solid	8015B NM	91643
880-48886-8	B-70-4'	Total/NA	Solid	8015B NM	91643
880-48886-9	B-71-4'	Total/NA	Solid	8015B NM	91643
880-48886-10	B-74-4'	Total/NA	Solid	8015B NM	91643
880-48886-11	B-75-4'	Total/NA	Solid	8015B NM	91643
880-48886-12	B-76-4'	Total/NA	Solid	8015B NM	91643
880-48886-13	B-77-4'	Total/NA	Solid	8015B NM	91643
880-48886-14	B-78-4'	Total/NA	Solid	8015B NM	91643
MB 880-91643/1-A	Method Blank	Total/NA	Solid	8015B NM	91643
LCS 880-91643/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91643
LCSD 880-91643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91643

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 91680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-15	B-79-4'	Total/NA	Solid	8015B NM	91644
880-48886-16	B-80-4'	Total/NA	Solid	8015B NM	91644
880-48886-17	B-81-4'	Total/NA	Solid	8015B NM	91644
880-48886-18	B-82-4'	Total/NA	Solid	8015B NM	91644
880-48886-19	B-83-4'	Total/NA	Solid	8015B NM	91644
880-48886-20	B-84-4'	Total/NA	Solid	8015B NM	91644
880-48886-21	B-85-4'	Total/NA	Solid	8015B NM	91644
880-48886-22	B-86-4'	Total/NA	Solid	8015B NM	91644
880-48886-23	B-87-4'	Total/NA	Solid	8015B NM	91644
880-48886-24	B-88-4'	Total/NA	Solid	8015B NM	91644
880-48886-25	B-89-4'	Total/NA	Solid	8015B NM	91644
880-48886-26	B-90-4'	Total/NA	Solid	8015B NM	91644
880-48886-27	B-91-4'	Total/NA	Solid	8015B NM	91644
880-48886-28	B-92-4'	Total/NA	Solid	8015B NM	91644
880-48886-29	B-93-4'	Total/NA	Solid	8015B NM	91644
880-48886-30	B-94-4'	Total/NA	Solid	8015B NM	91644
880-48886-31	B-95-4'	Total/NA	Solid	8015B NM	91644
880-48886-32	B-96-4'	Total/NA	Solid	8015B NM	91644
880-48886-33	B-97-4'	Total/NA	Solid	8015B NM	91644
880-48886-34	B-98-4'	Total/NA	Solid	8015B NM	91644
880-48886-35	B-99-4'	Total/NA	Solid	8015B NM	91645
880-48886-36	B-100-4'	Total/NA	Solid	8015B NM	91645
880-48886-37	B-101-4'	Total/NA	Solid	8015B NM	91645
880-48886-38	B-102-4'	Total/NA	Solid	8015B NM	91645
880-48886-39	B-103-4'	Total/NA	Solid	8015B NM	91645
880-48886-40	B-104-4'	Total/NA	Solid	8015B NM	91645
880-48886-41	B-105-4'	Total/NA	Solid	8015B NM	91645
880-48886-42	B-106-4'	Total/NA	Solid	8015B NM	91645
880-48886-43	B-107-4'	Total/NA	Solid	8015B NM	91645
880-48886-44	B-108-4'	Total/NA	Solid	8015B NM	91645
880-48886-45	B-109-4'	Total/NA	Solid	8015B NM	91645
880-48886-46	B-110-4'	Total/NA	Solid	8015B NM	91645
880-48886-47	B-111-4'	Total/NA	Solid	8015B NM	91645
880-48886-48	B-112-4'	Total/NA	Solid	8015B NM	91645
880-48886-49	B-113-4'	Total/NA	Solid	8015B NM	91645
880-48886-50	B-114-4'	Total/NA	Solid	8015B NM	91645
MB 880-91644/1-A	Method Blank	Total/NA	Solid	8015B NM	91644
MB 880-91645/1-A	Method Blank	Total/NA	Solid	8015B NM	91645
LCS 880-91644/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91644
LCS 880-91645/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91645
LCSD 880-91644/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91644
LCSD 880-91645/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91645
880-48886-15 MS	B-79-4'	Total/NA	Solid	8015B NM	91644
880-48886-15 MSD	B-79-4'	Total/NA	Solid	8015B NM	91644
880-48886-35 MS	B-99-4'	Total/NA	Solid	8015B NM	91645
880-48886-35 MSD	B-99-4'	Total/NA	Solid	8015B NM	91645

Analysis Batch: 91845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-1	B-63-4'	Total/NA	Solid	8015 NM	
880-48886-2	B-64-4'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 91845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-3	B-65-4'	Total/NA	Solid	8015 NM	
880-48886-4	B-66-4'	Total/NA	Solid	8015 NM	
880-48886-5	B-67-4'	Total/NA	Solid	8015 NM	
880-48886-6	B-68-4'	Total/NA	Solid	8015 NM	
880-48886-7	B-69-4'	Total/NA	Solid	8015 NM	
880-48886-8	B-70-4'	Total/NA	Solid	8015 NM	
880-48886-9	B-71-4'	Total/NA	Solid	8015 NM	
880-48886-10	B-74-4'	Total/NA	Solid	8015 NM	
880-48886-11	B-75-4'	Total/NA	Solid	8015 NM	
880-48886-12	B-76-4'	Total/NA	Solid	8015 NM	
880-48886-13	B-77-4'	Total/NA	Solid	8015 NM	
880-48886-14	B-78-4'	Total/NA	Solid	8015 NM	
880-48886-15	B-79-4'	Total/NA	Solid	8015 NM	
880-48886-16	B-80-4'	Total/NA	Solid	8015 NM	
880-48886-17	B-81-4'	Total/NA	Solid	8015 NM	
880-48886-18	B-82-4'	Total/NA	Solid	8015 NM	
880-48886-19	B-83-4'	Total/NA	Solid	8015 NM	
880-48886-20	B-84-4'	Total/NA	Solid	8015 NM	
880-48886-21	B-85-4'	Total/NA	Solid	8015 NM	
880-48886-22	B-86-4'	Total/NA	Solid	8015 NM	
880-48886-23	B-87-4'	Total/NA	Solid	8015 NM	
880-48886-24	B-88-4'	Total/NA	Solid	8015 NM	
880-48886-25	B-89-4'	Total/NA	Solid	8015 NM	
880-48886-26	B-90-4'	Total/NA	Solid	8015 NM	
880-48886-27	B-91-4'	Total/NA	Solid	8015 NM	
880-48886-28	B-92-4'	Total/NA	Solid	8015 NM	
880-48886-29	B-93-4'	Total/NA	Solid	8015 NM	
880-48886-30	B-94-4'	Total/NA	Solid	8015 NM	
880-48886-31	B-95-4'	Total/NA	Solid	8015 NM	
880-48886-32	B-96-4'	Total/NA	Solid	8015 NM	
880-48886-33	B-97-4'	Total/NA	Solid	8015 NM	
880-48886-34	B-98-4'	Total/NA	Solid	8015 NM	
880-48886-35	B-99-4'	Total/NA	Solid	8015 NM	
880-48886-36	B-100-4'	Total/NA	Solid	8015 NM	
880-48886-37	B-101-4'	Total/NA	Solid	8015 NM	
880-48886-38	B-102-4'	Total/NA	Solid	8015 NM	
880-48886-39	B-103-4'	Total/NA	Solid	8015 NM	
880-48886-40	B-104-4'	Total/NA	Solid	8015 NM	
880-48886-41	B-105-4'	Total/NA	Solid	8015 NM	
880-48886-42	B-106-4'	Total/NA	Solid	8015 NM	
880-48886-43	B-107-4'	Total/NA	Solid	8015 NM	
880-48886-44	B-108-4'	Total/NA	Solid	8015 NM	
880-48886-45	B-109-4'	Total/NA	Solid	8015 NM	
880-48886-46	B-110-4'	Total/NA	Solid	8015 NM	
880-48886-47	B-111-4'	Total/NA	Solid	8015 NM	
880-48886-48	B-112-4'	Total/NA	Solid	8015 NM	
880-48886-49	B-113-4'	Total/NA	Solid	8015 NM	
880-48886-50	B-114-4'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

HPLC/IC

Leach Batch: 91641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-1	B-63-4'	Soluble	Solid	DI Leach	
880-48886-2	B-64-4'	Soluble	Solid	DI Leach	
880-48886-3	B-65-4'	Soluble	Solid	DI Leach	
880-48886-4	B-66-4'	Soluble	Solid	DI Leach	
880-48886-5	B-67-4'	Soluble	Solid	DI Leach	
880-48886-6	B-68-4'	Soluble	Solid	DI Leach	
880-48886-7	B-69-4'	Soluble	Solid	DI Leach	
880-48886-8	B-70-4'	Soluble	Solid	DI Leach	
880-48886-9	B-71-4'	Soluble	Solid	DI Leach	
880-48886-10	B-74-4'	Soluble	Solid	DI Leach	
880-48886-11	B-75-4'	Soluble	Solid	DI Leach	
880-48886-12	B-76-4'	Soluble	Solid	DI Leach	
880-48886-13	B-77-4'	Soluble	Solid	DI Leach	
880-48886-14	B-78-4'	Soluble	Solid	DI Leach	
880-48886-15	B-79-4'	Soluble	Solid	DI Leach	
880-48886-16	B-80-4'	Soluble	Solid	DI Leach	
880-48886-17	B-81-4'	Soluble	Solid	DI Leach	
880-48886-18	B-82-4'	Soluble	Solid	DI Leach	
880-48886-19	B-83-4'	Soluble	Solid	DI Leach	
880-48886-20	B-84-4'	Soluble	Solid	DI Leach	
MB 880-91641/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91641/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91641/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48886-1 MS	B-63-4'	Soluble	Solid	DI Leach	
880-48886-1 MSD	B-63-4'	Soluble	Solid	DI Leach	
880-48886-11 MS	B-75-4'	Soluble	Solid	DI Leach	
880-48886-11 MSD	B-75-4'	Soluble	Solid	DI Leach	

Leach Batch: 91642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-21	B-85-4'	Soluble	Solid	DI Leach	
880-48886-22	B-86-4'	Soluble	Solid	DI Leach	
880-48886-23	B-87-4'	Soluble	Solid	DI Leach	
880-48886-24	B-88-4'	Soluble	Solid	DI Leach	
880-48886-25	B-89-4'	Soluble	Solid	DI Leach	
880-48886-26	B-90-4'	Soluble	Solid	DI Leach	
880-48886-27	B-91-4'	Soluble	Solid	DI Leach	
880-48886-28	B-92-4'	Soluble	Solid	DI Leach	
880-48886-29	B-93-4'	Soluble	Solid	DI Leach	
880-48886-30	B-94-4'	Soluble	Solid	DI Leach	
880-48886-31	B-95-4'	Soluble	Solid	DI Leach	
880-48886-32	B-96-4'	Soluble	Solid	DI Leach	
880-48886-33	B-97-4'	Soluble	Solid	DI Leach	
880-48886-34	B-98-4'	Soluble	Solid	DI Leach	
880-48886-35	B-99-4'	Soluble	Solid	DI Leach	
880-48886-36	B-100-4'	Soluble	Solid	DI Leach	
880-48886-37	B-101-4'	Soluble	Solid	DI Leach	
880-48886-38	B-102-4'	Soluble	Solid	DI Leach	
880-48886-39	B-103-4'	Soluble	Solid	DI Leach	
880-48886-40	B-104-4'	Soluble	Solid	DI Leach	
MB 880-91642/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 91642 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-91642/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91642/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48886-21 MS	B-85-4'	Soluble	Solid	DI Leach	
880-48886-21 MSD	B-85-4'	Soluble	Solid	DI Leach	
880-48886-31 MS	B-95-4'	Soluble	Solid	DI Leach	
880-48886-31 MSD	B-95-4'	Soluble	Solid	DI Leach	

Analysis Batch: 91649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-1	B-63-4'	Soluble	Solid	300.0	91641
880-48886-2	B-64-4'	Soluble	Solid	300.0	91641
880-48886-3	B-65-4'	Soluble	Solid	300.0	91641
880-48886-4	B-66-4'	Soluble	Solid	300.0	91641
880-48886-5	B-67-4'	Soluble	Solid	300.0	91641
880-48886-6	B-68-4'	Soluble	Solid	300.0	91641
880-48886-7	B-69-4'	Soluble	Solid	300.0	91641
880-48886-8	B-70-4'	Soluble	Solid	300.0	91641
880-48886-9	B-71-4'	Soluble	Solid	300.0	91641
880-48886-10	B-74-4'	Soluble	Solid	300.0	91641
880-48886-11	B-75-4'	Soluble	Solid	300.0	91641
880-48886-12	B-76-4'	Soluble	Solid	300.0	91641
880-48886-13	B-77-4'	Soluble	Solid	300.0	91641
880-48886-14	B-78-4'	Soluble	Solid	300.0	91641
880-48886-15	B-79-4'	Soluble	Solid	300.0	91641
880-48886-16	B-80-4'	Soluble	Solid	300.0	91641
880-48886-17	B-81-4'	Soluble	Solid	300.0	91641
880-48886-18	B-82-4'	Soluble	Solid	300.0	91641
880-48886-19	B-83-4'	Soluble	Solid	300.0	91641
880-48886-20	B-84-4'	Soluble	Solid	300.0	91641
MB 880-91641/1-A	Method Blank	Soluble	Solid	300.0	91641
LCS 880-91641/2-A	Lab Control Sample	Soluble	Solid	300.0	91641
LCSD 880-91641/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91641
880-48886-1 MS	B-63-4'	Soluble	Solid	300.0	91641
880-48886-1 MSD	B-63-4'	Soluble	Solid	300.0	91641
880-48886-11 MS	B-75-4'	Soluble	Solid	300.0	91641
880-48886-11 MSD	B-75-4'	Soluble	Solid	300.0	91641

Analysis Batch: 91659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-21	B-85-4'	Soluble	Solid	300.0	91642
880-48886-22	B-86-4'	Soluble	Solid	300.0	91642
880-48886-23	B-87-4'	Soluble	Solid	300.0	91642
880-48886-24	B-88-4'	Soluble	Solid	300.0	91642
880-48886-25	B-89-4'	Soluble	Solid	300.0	91642
880-48886-26	B-90-4'	Soluble	Solid	300.0	91642
880-48886-27	B-91-4'	Soluble	Solid	300.0	91642
880-48886-28	B-92-4'	Soluble	Solid	300.0	91642
880-48886-29	B-93-4'	Soluble	Solid	300.0	91642
880-48886-30	B-94-4'	Soluble	Solid	300.0	91642
880-48886-31	B-95-4'	Soluble	Solid	300.0	91642
880-48886-32	B-96-4'	Soluble	Solid	300.0	91642

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 91659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-33	B-97-4'	Soluble	Solid	300.0	91642
880-48886-34	B-98-4'	Soluble	Solid	300.0	91642
880-48886-35	B-99-4'	Soluble	Solid	300.0	91642
880-48886-36	B-100-4'	Soluble	Solid	300.0	91642
880-48886-37	B-101-4'	Soluble	Solid	300.0	91642
880-48886-38	B-102-4'	Soluble	Solid	300.0	91642
880-48886-39	B-103-4'	Soluble	Solid	300.0	91642
880-48886-40	B-104-4'	Soluble	Solid	300.0	91642
MB 880-91642/1-A	Method Blank	Soluble	Solid	300.0	91642
LCS 880-91642/2-A	Lab Control Sample	Soluble	Solid	300.0	91642
LCSD 880-91642/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91642
880-48886-21 MS	B-85-4'	Soluble	Solid	300.0	91642
880-48886-21 MSD	B-85-4'	Soluble	Solid	300.0	91642
880-48886-31 MS	B-95-4'	Soluble	Solid	300.0	91642
880-48886-31 MSD	B-95-4'	Soluble	Solid	300.0	91642

Leach Batch: 91773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-41	B-105-4'	Soluble	Solid	DI Leach	
880-48886-42	B-106-4'	Soluble	Solid	DI Leach	
880-48886-43	B-107-4'	Soluble	Solid	DI Leach	
880-48886-44	B-108-4'	Soluble	Solid	DI Leach	
880-48886-45	B-109-4'	Soluble	Solid	DI Leach	
880-48886-46	B-110-4'	Soluble	Solid	DI Leach	
880-48886-47	B-111-4'	Soluble	Solid	DI Leach	
880-48886-48	B-112-4'	Soluble	Solid	DI Leach	
880-48886-49	B-113-4'	Soluble	Solid	DI Leach	
880-48886-50	B-114-4'	Soluble	Solid	DI Leach	
MB 880-91773/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91773/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91773/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48886-41 MS	B-105-4'	Soluble	Solid	DI Leach	
880-48886-41 MSD	B-105-4'	Soluble	Solid	DI Leach	

Analysis Batch: 91780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48886-41	B-105-4'	Soluble	Solid	300.0	91773
880-48886-42	B-106-4'	Soluble	Solid	300.0	91773
880-48886-43	B-107-4'	Soluble	Solid	300.0	91773
880-48886-44	B-108-4'	Soluble	Solid	300.0	91773
880-48886-45	B-109-4'	Soluble	Solid	300.0	91773
880-48886-46	B-110-4'	Soluble	Solid	300.0	91773
880-48886-47	B-111-4'	Soluble	Solid	300.0	91773
880-48886-48	B-112-4'	Soluble	Solid	300.0	91773
880-48886-49	B-113-4'	Soluble	Solid	300.0	91773
880-48886-50	B-114-4'	Soluble	Solid	300.0	91773
MB 880-91773/1-A	Method Blank	Soluble	Solid	300.0	91773
LCS 880-91773/2-A	Lab Control Sample	Soluble	Solid	300.0	91773
LCSD 880-91773/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91773
880-48886-41 MS	B-105-4'	Soluble	Solid	300.0	91773
880-48886-41 MSD	B-105-4'	Soluble	Solid	300.0	91773

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-63-4'

Date Collected: 09/20/24 08:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/24/24 22:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/24/24 22:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 18:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 18:15	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 21:47	CH	EET MID

Client Sample ID: B-64-4'

Date Collected: 09/20/24 08:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-2
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	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/24/24 22:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/24/24 22:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 16:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 16:03	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91649	09/24/24 22:13	CH	EET MID

Client Sample ID: B-65-4'

Date Collected: 09/20/24 08:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/24/24 23:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/24/24 23:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 16:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 16:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 22:22	CH	EET MID

Client Sample ID: B-66-4'

Date Collected: 09/20/24 08:45
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-4
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			4.97 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/24/24 23:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/24/24 23:37	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-66-4'
Date Collected: 09/20/24 08:45
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91845	09/25/24 16:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 16:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 22:31	CH	EET MID

Client Sample ID: B-67-4'
Date Collected: 09/20/24 08:50
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/24/24 23:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/24/24 23:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 17:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 17:17	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 22:40	CH	EET MID

Client Sample ID: B-68-4'
Date Collected: 09/20/24 08:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-6
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			5.02 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 00:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 00:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 18:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 18:35	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 23:07	CH	EET MID

Client Sample ID: B-69-4'
Date Collected: 09/20/24 09:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 00:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 00:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 18:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 18:54	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-69-4'

Date Collected: 09/20/24 09:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 23:16	CH	EET MID

Client Sample ID: B-70-4'

Date Collected: 09/20/24 09:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-8

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			4.96 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 00:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 00:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 17:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 17:36	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 23:25	CH	EET MID

Client Sample ID: B-71-4'

Date Collected: 09/20/24 09:10
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-9

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			5.02 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 01:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 01:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 14:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 23:34	CH	EET MID

Client Sample ID: B-74-4'

Date Collected: 09/20/24 09:15
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-10

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			4.99 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 01:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 01:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 14:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 14:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 23:43	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-75-4'

Date Collected: 09/20/24 09:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-11

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	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 03:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 03:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 14:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 14:42	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/24/24 23:52	CH	EET MID

Client Sample ID: B-76-4'

Date Collected: 09/20/24 09:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 03:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 03:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 15:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 15:02	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/25/24 00:19	CH	EET MID

Client Sample ID: B-77-4'

Date Collected: 09/20/24 10:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 03:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 03:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 17:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 17:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/25/24 00:28	CH	EET MID

Client Sample ID: B-78-4'

Date Collected: 09/20/24 10:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 04:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 04:04	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-78-4'
Date Collected: 09/20/24 10:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91845	09/25/24 15:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	91643	09/24/24 14:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91678	09/25/24 15:43	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/25/24 00:54	CH	EET MID

Client Sample ID: B-79-4'
Date Collected: 09/20/24 10:10
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-15
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			4.99 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 04:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 04:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 11:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 11:21	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/25/24 01:03	CH	EET MID

Client Sample ID: B-80-4'
Date Collected: 09/20/24 10:15
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-16
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			4.99 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 04:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 04:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 12:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 12:22	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/25/24 01:12	CH	EET MID

Client Sample ID: B-81-4'
Date Collected: 09/20/24 10:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-17
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	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 05:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 05:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 12:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 12:42	AJ	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-81-4'
Date Collected: 09/20/24 10:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/25/24 01:21	CH	EET MID

Client Sample ID: B-82-4'
Date Collected: 09/20/24 10:25
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-18
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			5.01 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 05:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 05:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 13:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 13:02	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/25/24 01:30	CH	EET MID

Client Sample ID: B-83-4'
Date Collected: 09/20/24 10:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 05:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 05:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 14:02	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91649	09/25/24 01:39	CH	EET MID

Client Sample ID: B-84-4'
Date Collected: 09/20/24 10:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	91653	09/24/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91583	09/25/24 06:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 06:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 15:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 15:02	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91641	09/24/24 14:03	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91649	09/25/24 01:48	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-85-4'
Date Collected: 09/20/24 10:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 02:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 02:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 13:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 13:22	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 16:34	CH	EET MID

Client Sample ID: B-86-4'
Date Collected: 09/20/24 10:45
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-22
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			5.02 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 03:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 03:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 14:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 14:22	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 17:00	CH	EET MID

Client Sample ID: B-87-4'
Date Collected: 09/20/24 10:50
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-23
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			5.01 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 03:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 03:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 15:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 15:43	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 17:09	CH	EET MID

Client Sample ID: B-88-4'
Date Collected: 09/20/24 10:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-24
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			4.97 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 03:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 03:47	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-88-4'
Date Collected: 09/20/24 10:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91845	09/25/24 16:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 16:03	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 17:18	CH	EET MID

Client Sample ID: B-89-4'
Date Collected: 09/20/24 11:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-25
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			4.98 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 04:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 04:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 16:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 16:23	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 17:27	CH	EET MID

Client Sample ID: B-90-4'
Date Collected: 09/20/24 11:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 04:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 04:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 16:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 16:43	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 17:54	CH	EET MID

Client Sample ID: B-91-4'
Date Collected: 09/20/24 11:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 04:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 04:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 17:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 17:17	AJ	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-91-4'

Date Collected: 09/20/24 11:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 18:03	CH	EET MID

Client Sample ID: B-92-4'

Date Collected: 09/20/24 11:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 05:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 05:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 17:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 17:36	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 18:12	CH	EET MID

Client Sample ID: B-93-4'

Date Collected: 09/20/24 11:45
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-29

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			5.02 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 05:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 05:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 17:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 17:56	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 18:21	CH	EET MID

Client Sample ID: B-94-4'

Date Collected: 09/20/24 11:50
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-30

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			4.99 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 05:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 05:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 18:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 18:15	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 18:30	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-95-4'
Date Collected: 09/20/24 11:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-31
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			4.99 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 09:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 09:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 18:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 18:35	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 18:39	CH	EET MID

Client Sample ID: B-96-4'
Date Collected: 09/20/24 12:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-32
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			5.02 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 10:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 10:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 13:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 13:42	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 19:06	CH	EET MID

Client Sample ID: B-97-4'
Date Collected: 09/20/24 12:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-33
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			5.03 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 10:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 18:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 18:54	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 19:15	CH	EET MID

Client Sample ID: B-98-4'
Date Collected: 09/20/24 12:10
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-34
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			5.01 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 10:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 10:52	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-98-4'
Date Collected: 09/20/24 12:10
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91845	09/25/24 14:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91644	09/24/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 14:42	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 19:41	CH	EET MID

Client Sample ID: B-99-4'
Date Collected: 09/20/24 12:15
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-35
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			4.99 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 11:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 11:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 20:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 20:32	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 19:50	CH	EET MID

Client Sample ID: B-100-4'
Date Collected: 09/20/24 12:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-36
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			4.99 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 11:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 11:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 22:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 22:28	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 19:59	CH	EET MID

Client Sample ID: B-101-4'
Date Collected: 09/20/24 12:25
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-37
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			5.02 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 11:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 11:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 23:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 23:46	AJ	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-101-4'
Date Collected: 09/20/24 12:25
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 20:08	CH	EET MID

Client Sample ID: B-102-4'
Date Collected: 09/20/24 12:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-38
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			5.01 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 12:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/26/24 00:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/26/24 00:05	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 20:17	CH	EET MID

Client Sample ID: B-103-4'
Date Collected: 09/20/24 13:15
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-39
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			5.00 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 12:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 12:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/26/24 00:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/26/24 00:45	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91659	09/24/24 20:26	CH	EET MID

Client Sample ID: B-104-4'
Date Collected: 09/20/24 13:20
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	91656	09/24/24 15:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91638	09/25/24 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 12:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 22:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 22:47	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91642	09/24/24 14:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91659	09/24/24 20:35	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-105-4'
Date Collected: 09/20/24 13:25
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 01:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 01:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 22:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 22:09	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91780	09/26/24 00:11	CH	EET MID

Client Sample ID: B-106-4'
Date Collected: 09/20/24 13:30
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 02:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 21:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 21:30	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91780	09/26/24 00:27	CH	EET MID

Client Sample ID: B-107-4'
Date Collected: 09/20/24 13:35
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-43
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			5.01 g	5 mL	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 02:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 02:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 21:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 21:49	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91780	09/26/24 00:33	CH	EET MID

Client Sample ID: B-108-4'
Date Collected: 09/20/24 13:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-44
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			4.97 g	5 mL	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 02:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 02:44	SM	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-108-4'
Date Collected: 09/20/24 13:40
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			91845	09/25/24 23:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 23:27	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91780	09/26/24 00:38	CH	EET MID

Client Sample ID: B-109-4'
Date Collected: 09/20/24 13:45
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-45
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	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 03:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 03:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/26/24 01:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/26/24 01:24	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91780	09/26/24 00:44	CH	EET MID

Client Sample ID: B-110-4'
Date Collected: 09/20/24 13:50
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-46
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	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 03:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 03:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/26/24 01:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/26/24 01:43	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91780	09/26/24 01:00	CH	EET MID

Client Sample ID: B-111-4'
Date Collected: 09/20/24 13:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-47
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	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 03:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 03:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/26/24 02:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/26/24 02:03	AJ	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Client Sample ID: B-111-4'
Date Collected: 09/20/24 13:55
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-47
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	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91780	09/26/24 01:05	CH	EET MID

Client Sample ID: B-112-4'
Date Collected: 09/20/24 14:00
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-48
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	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 04:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 04:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/26/24 02:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/26/24 02:21	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	91780	09/26/24 01:11	CH	EET MID

Client Sample ID: B-113-4'
Date Collected: 09/20/24 14:05
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-49
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	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 04:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 04:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/26/24 01:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/26/24 01:04	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91780	09/26/24 01:16	CH	EET MID

Client Sample ID: B-114-4'
Date Collected: 09/20/24 14:10
Date Received: 09/24/24 13:20

Lab Sample ID: 880-48886-50
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	91658	09/24/24 15:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91586	09/25/24 04:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91746	09/25/24 04:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			91845	09/25/24 23:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	91645	09/24/24 14:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91680	09/25/24 23:06	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	91773	09/25/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91780	09/26/24 01:21	CH	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

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: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
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.

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: WLU 41

Job ID: 880-48886-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-48886-1	B-63-4'	Solid	09/20/24 08:30	09/24/24 13:20
880-48886-2	B-64-4'	Solid	09/20/24 08:35	09/24/24 13:20
880-48886-3	B-65-4'	Solid	09/20/24 08:40	09/24/24 13:20
880-48886-4	B-66-4'	Solid	09/20/24 08:45	09/24/24 13:20
880-48886-5	B-67-4'	Solid	09/20/24 08:50	09/24/24 13:20
880-48886-6	B-68-4'	Solid	09/20/24 08:55	09/24/24 13:20
880-48886-7	B-69-4'	Solid	09/20/24 09:00	09/24/24 13:20
880-48886-8	B-70-4'	Solid	09/20/24 09:05	09/24/24 13:20
880-48886-9	B-71-4'	Solid	09/20/24 09:10	09/24/24 13:20
880-48886-10	B-74-4'	Solid	09/20/24 09:15	09/24/24 13:20
880-48886-11	B-75-4'	Solid	09/20/24 09:20	09/24/24 13:20
880-48886-12	B-76-4'	Solid	09/20/24 09:30	09/24/24 13:20
880-48886-13	B-77-4'	Solid	09/20/24 10:00	09/24/24 13:20
880-48886-14	B-78-4'	Solid	09/20/24 10:05	09/24/24 13:20
880-48886-15	B-79-4'	Solid	09/20/24 10:10	09/24/24 13:20
880-48886-16	B-80-4'	Solid	09/20/24 10:15	09/24/24 13:20
880-48886-17	B-81-4'	Solid	09/20/24 10:20	09/24/24 13:20
880-48886-18	B-82-4'	Solid	09/20/24 10:25	09/24/24 13:20
880-48886-19	B-83-4'	Solid	09/20/24 10:30	09/24/24 13:20
880-48886-20	B-84-4'	Solid	09/20/24 10:35	09/24/24 13:20
880-48886-21	B-85-4'	Solid	09/20/24 10:40	09/24/24 13:20
880-48886-22	B-86-4'	Solid	09/20/24 10:45	09/24/24 13:20
880-48886-23	B-87-4'	Solid	09/20/24 10:50	09/24/24 13:20
880-48886-24	B-88-4'	Solid	09/20/24 10:55	09/24/24 13:20
880-48886-25	B-89-4'	Solid	09/20/24 11:00	09/24/24 13:20
880-48886-26	B-90-4'	Solid	09/20/24 11:30	09/24/24 13:20
880-48886-27	B-91-4'	Solid	09/20/24 11:35	09/24/24 13:20
880-48886-28	B-92-4'	Solid	09/20/24 11:40	09/24/24 13:20
880-48886-29	B-93-4'	Solid	09/20/24 11:45	09/24/24 13:20
880-48886-30	B-94-4'	Solid	09/20/24 11:50	09/24/24 13:20
880-48886-31	B-95-4'	Solid	09/20/24 11:55	09/24/24 13:20
880-48886-32	B-96-4'	Solid	09/20/24 12:00	09/24/24 13:20
880-48886-33	B-97-4'	Solid	09/20/24 12:05	09/24/24 13:20
880-48886-34	B-98-4'	Solid	09/20/24 12:10	09/24/24 13:20
880-48886-35	B-99-4'	Solid	09/20/24 12:15	09/24/24 13:20
880-48886-36	B-100-4'	Solid	09/20/24 12:20	09/24/24 13:20
880-48886-37	B-101-4'	Solid	09/20/24 12:25	09/24/24 13:20
880-48886-38	B-102-4'	Solid	09/20/24 12:30	09/24/24 13:20
880-48886-39	B-103-4'	Solid	09/20/24 13:15	09/24/24 13:20
880-48886-40	B-104-4'	Solid	09/20/24 13:20	09/24/24 13:20
880-48886-41	B-105-4'	Solid	09/20/24 13:25	09/24/24 13:20
880-48886-42	B-106-4'	Solid	09/20/24 13:30	09/24/24 13:20
880-48886-43	B-107-4'	Solid	09/20/24 13:35	09/24/24 13:20
880-48886-44	B-108-4'	Solid	09/20/24 13:40	09/24/24 13:20
880-48886-45	B-109-4'	Solid	09/20/24 13:45	09/24/24 13:20
880-48886-46	B-110-4'	Solid	09/20/24 13:50	09/24/24 13:20
880-48886-47	B-111-4'	Solid	09/20/24 13:55	09/24/24 13:20
880-48886-48	B-112-4'	Solid	09/20/24 14:00	09/24/24 13:20
880-48886-49	B-113-4'	Solid	09/20/24 14:05	09/24/24 13:20
880-48886-50	B-114-4'	Solid	09/20/24 14:10	09/24/24 13:20

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

Chain of Custody Record

880-48886 Chain of Custody

Client Information	Sampler: Hunter Boyd	Lab PM: Builes, John	Carrier Tracking No(s):
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM

Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested	Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:		Preservation Codes: N - None
City: Midland	TAT Requested (days): 24 hr TAT		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #:		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: WLH 41	Project #: 30237085 Task 00004		
Site: Lea County, NM	SSOW#:		Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-63-4'	9/20/24	830	C	Solid			X	X	X	1	
B-64-4'		835		Solid			X	X	X	1	
B-65-4'		840		Solid			X	X	X	1	
B-66-4'		845		Solid			X	X	X	1	
B-67-4'		850		Solid			X	X	X	1	
B-68-4'		855		Solid			X	X	X	1	
B-69-4'		900		Solid			X	X	X	1	
B-70-4'		905		Solid			X	X	X	1	
B-71-4'		910		Solid			X	X	X	1	
B-74-4'		915		Solid			X	X	X	1	
B-75-4'	X	920	X	Solid			X	X	X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/23/24 1450	Arcadis			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				9.24.24 1320	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		3.4/3.3

Ver: 05/06/2024

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9/26/2024
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Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing

48886

Client Information	Sampler: HB	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 5
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 24 hr			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: WLL 41	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-76-4'	9/20/24	930	C	Solid			X	X	X	1	
B-77-4'		1000		Solid			X	X	X	1	
B-78-4'		1005		Solid			X	X	X	1	
B-79-4'		1010		Solid			X	X	X	1	
B-80-4'		1015		Solid			X	X	X	1	
B-81-4'		1020		Solid			X	X	X	1	
B-82-4'		1025		Solid			X	X	X	1	
B-83-4'		1030		Solid			X	X	X	1	
B-84-4'		1035		Solid			X	X	X	1	
B-85-4'		1040		Solid			X	X	X	1	
B-86-4'	X	1045	X	Solid			X	X	X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/23/24 1450	Arcadis			
Relinquished by: BCox	Date/Time:	Company	Received by:	Date/Time: 9.24.24	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1320	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

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Received by OCD: 10/23/2024 1:19:31 PM
9/26/2024
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Released to Imaging: 10/30/2024 9:04:02 AM

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

Chain of Custody Record

eurofins | Environment Testing

48886

Client Information	Sampler: HB	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 3 of 5
Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 24 hr			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: WLH 41	Project #:			Other:
Site:	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)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-87-4'	9/20/24	1050	C	Solid			X	X	X	1	
B-88-4'		1055		Solid			X	X	X	1	
B-89-4'		1100		Solid			X	X	X	1	
B-90-4'		1130		Solid			X	X	X	1	
B-91-4'		1135		Solid			X	X	X	1	
B-92-4'		1140		Solid			X	X	X	1	
B-93-4'		1145		Solid			X	X	X	1	
B-94-4'		1150		Solid			X	X	X	1	
B-95-4'		1155		Solid			X	X	X	1	
B-96-4'		1200		Solid			X	X	X	1	
B-97-4'	K	1205	K	Solid			X	X	X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/23/24 1450	Arcadis			
2	BCOP				9.24.24	
3					1320	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Received by OCD: 10/23/2024 1:19:31 PM
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9/26/2024
Released to Imaging: 10/30/2024 9:04:02 AM

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

Chain of Custody Record

eurofins Environment Testing

480886

Client Information	Sampler: HB	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 4 of 5
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 24 hr.			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: WLU 41	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-98-4'	9/20/24	1210	C	Solid			X	X	X	1	
B-99-4'		1215		Solid			X	X	X	1	
B-100-4'		1220		Solid			X	X	X	1	
B-101-4'		1225		Solid			X	X	X	1	
B-102-4'		1230		Solid			X	X	X	1	
B-103-4'		1315		Solid			X	X	X	1	
B-104-4'		1320		Solid			X	X	X	1	
B-105-4'		1325		Solid			X	X	X	1	
B-106-4'		1330		Solid			X	X	X	1	
B-107-4'		1335		Solid			X	X	X	1	
B-108-4'	"	1340	"	Solid			X	X	X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	BCP	9/23/24 1950	Arcadis			
2				L.K.L.	9.24.24 1320	
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

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Received by OCD: 10/23/2024 1:19:31 PM
9/26/2024
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Released to Imaging: 10/30/2024 9:04:02 AM

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

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: HB	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin:	Page: Page 5 of 5
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 24 hr			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: WLW 41	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-109-4'	9/20/24	1345	C	Solid						1	
B-110-4'	"	1350	"	Solid						1	
B-111-4'	"	1355	"	Solid						1	
B-112-4'	"	1400	"	Solid						1	
B-113-4'	"	1405	"	Solid						1	
B-114-4'	"	1410	"	Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/23/24 1450	Arcadis			
2	BLOX				9.24.24 1320	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Received by OCD: 10/23/2024 1:19:31 PM
Released to Imaging: 10/30/2024 9:04:02 AM
9/26/2024
Page 94 of 95

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-48886-1
SDG Number: Lea County, NM

Login Number: 48886
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	

Appendix C

Photo Log

ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Incident No.
West Lovington Unit #041	Lea County, NM	nGRL1006731469

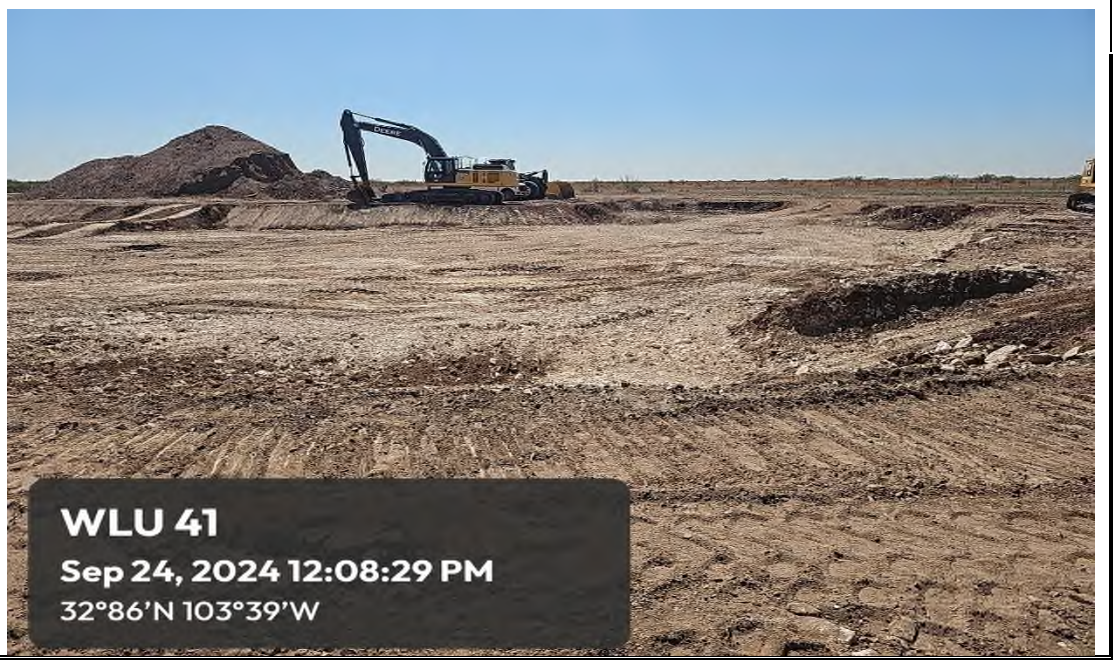
Photo No.	Date:
1	9/24/2024

Coordinates:

32.854805, -103.392172

Description:

Excavation completed.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Incident No.
West Lovington Unit #041	Lea County, NM	nGRL1006731469

Photo No.	Date:
2	9//2024

Coordinates:

32.854805, -103.392172

Description:

Excavation completed.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Incident No.
West Lovington Unit #041	Lea County, NM	nGRL1006731469

Photo No.	Date:
3	10/1/2024

Coordinates:

32.854805, -103.392172

Description:

Excavation backfilling in progress.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Incident No.
West Lovington Unit #041	Lea County, NM	nGRL1006731469

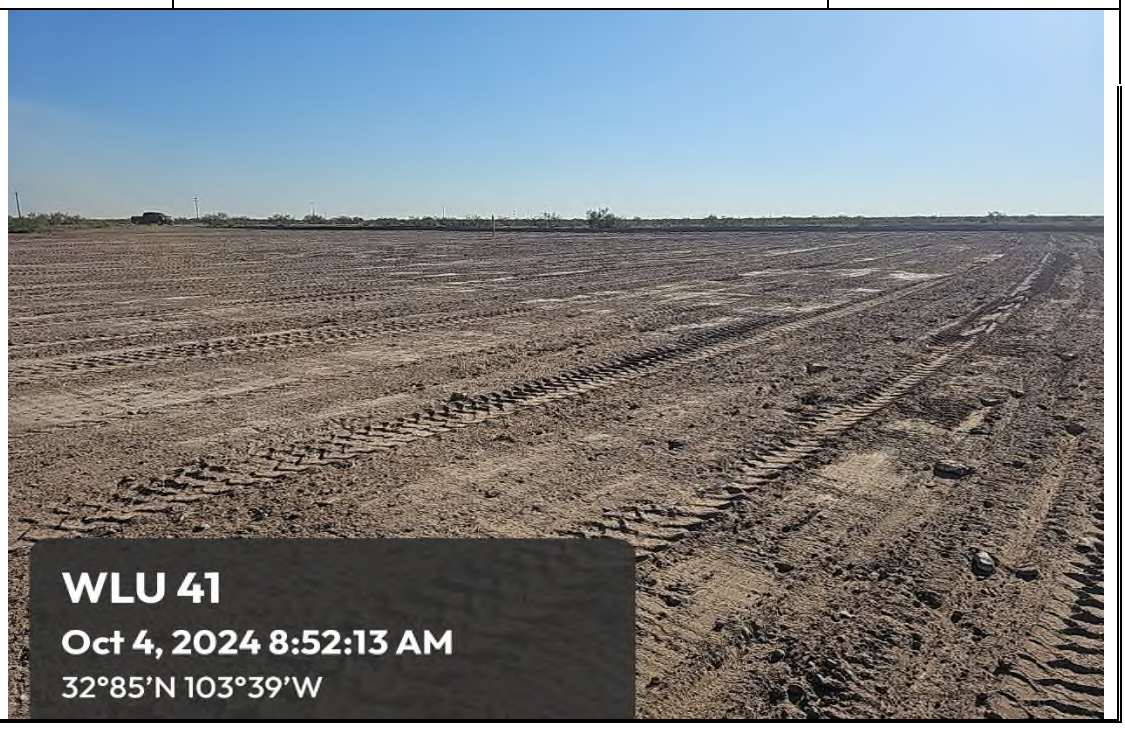
Photo No.	Date:
4	10/4/2024

Coordinates:

32.854805, -103.392172

Description:

Excavation backfilling and contouring completed.



ARCADIS

PHOTOGRAPHIC LOG

Property Name:	Location:	Incident No.
West Lovington Unit #041	Lea County, NM	nGRL1006731469

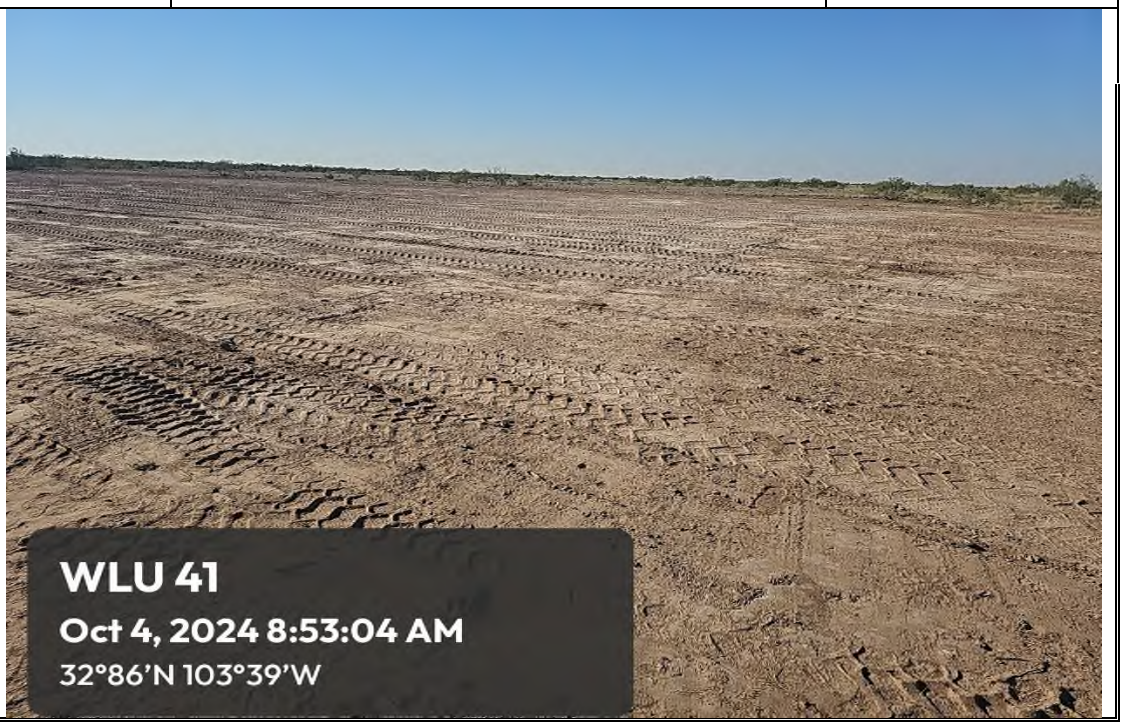
Photo No.	Date:
5	10/4/2024

Coordinates:

32.854805, -103.392172

Description:

Excavation backfilling, contouring, and reclamation completed.



Arcadis U.S., Inc.
1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800
www.arcadis.com

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
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1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 394541

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394541
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nGRL1006731469**
Incident Name	**NGRL1006731469 WEST LOVINGTON UNIT #41 @ 30-025-03901**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-025-03901] WEST LOVINGTON UNIT #041**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WEST LOVINGTON UNIT #41
Date Release Discovered	03/27/2009
Surface Owner	Private

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 - Injection | Produced Water | Released: 20 BBL | Recovered: 14 BBL | Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394541
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 07/23/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394541
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 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)	6150
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	236
GRO+DRO (EPA SW-846 Method 8015M)	155
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	08/23/2024
On what date will (or did) the final sampling or liner inspection occur	08/24/2024
On what date will (or was) the remediation complete(d)	09/23/2024
What is the estimated surface area (in square feet) that will be reclaimed	27500
What is the estimated volume (in cubic yards) that will be reclaimed	4100
What is the estimated surface area (in square feet) that will be remediated	27500
What is the estimated volume (in cubic yards) that will be remediated	4100
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394541
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 07/23/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394541
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I
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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394541
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**382713**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**09/13/2024**
What was the (estimated) number of samples that were to be gathered	**95**
What was the sampling surface area in square feet	**18300**

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	22450
What was the total volume (cubic yards) remediated	3325
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	22450
What was the total volume (in cubic yards) reclaimed	3325
Summarize any additional remediation activities not included by answers (above)	Please see attached remediation closure report for all remediation activities.

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: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 10/23/2024

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394541
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	22450
What was the total volume of replacement material (in cubic yards) for this site	3325
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	04/01/2025
Summarize any additional reclamation activities not included by answers (above)	Please see attached report for all reclamation activities.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 10/23/2024

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
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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394541
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 394541

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 394541
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	10/30/2024
amaxwell	A revegetation report will not be accepted until revegetation 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.	10/30/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	10/30/2024