



Armando Martinez
Operations Lead, Portfolio Operations Central

VIA ELECTRONIC MAIL

September 12, 2024
New Mexico Oil Conservation Division, District II
811 S. First Ct
Artesia, NM 88210

**Re: South Culebra Bluff Unit 23-14
2024 Remediation Summary and Soil Closure Request Report
Case No. 2RP-4875
Incident No. nAB1821142197
Eddy County, New Mexico**

Dear whom it concerns,

Please find enclosed for your filed, copies of the following:

- South Culebra Bluff Unit 23-14 – 2024 Remediation Summary and Soil Closure Request Report

The 2024 Remediation Summary and Soil Closure Request Report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC).

Please do not hesitate to call Sarah Johnson with Arcadis at 432.227.0266 or myself at 575.586.7639, should you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Armando Martinez".

Armando Martinez

Encl. South Culebra Bluff Unit 23-14 2024 Remediation Summary and Soil Closure Request Report

cc. Amy Barnhill, Chevron/MCBU

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Chevron Environmental Management Company

2024 Remediation Summary and Soil Closure Request Report

South Culebra Bluff Unit 23-14

Case No. 2RP-4875

September 2024

2024 Remediation Summary and Soil Closure Request

2024 Remediation Summary and Soil Closure Request

South Culebra Bluff Unit 23-14

September 2024

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2024 Remediation Summary and Soil Closure Request

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2024 Remediation Summary and Soil Closure Request

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Remediation Summary and Soil Closure Request Report (Report), on behalf of Chevron Environmental Management Company (CEMC), summarizing remediation activities for the South Culebra Bluff (SCB) Unit 23-14 (Site).

2 Project Summary

The Site is located approximately 2 miles east of Loving, New Mexico. The Site is in Bureau of Land Management (BLM) legal description Unit N, Section 23, Township 23 South, Range 28 East, in Eddy County, New Mexico, on private land. A Site location map is included as **Figure 1**. According to the data collected from the temporary monitoring well installed at the Site in 2022, the reported depth to groundwater is approximately 54 feet below ground surface (bgs).

On July 14, 2018, a release due to equipment failure from the circulatory pump that controls the oil tank was discovered at the Site. Rockcliff Operating New Mexico, LLC (Rockcliff) (the previous operator of this well) notified the New Mexico Oil Conservation Division (NMOCD) of the release and it was assigned remediation permit number 2RP-4875. According to the NMOCD Initial C-141 Form filed by Rockcliff on July 23, 2018, the oil was contained within the earthen firewall. Initial response activities included turning off the circulatory pump and wells. A vacuum truck was utilized to remove standing fluids. The Initial C-141 Form indicates that approximately 60 barrels (bbls) of oil and 20 bbls of oil and rain mixture were recovered. The fluids were disposed of at a NMOCD approved facility. The initial investigation activities and initial C-141 Form are included as **Appendix A**.

3 Closure Criteria for Soils Impacted by a Release

The NMOCD classifies the Site based on depth to groundwater confirmed at approximately 54 feet bgs. Per Table I of New Mexico Administrative Code (NMAC) part 19.15.29.12, the following closure criteria applies to a site with depth to groundwater between 51 feet to 100 feet bgs:

Table 3-1 Closure Criteria for Soils Impacted by a Release

Depth to Groundwater	Constituent	NMAC Standards (mg/kg)	Restoration Requirements (mg/kg)*
51 feet – 100 feet	Chloride	10,000	600
	TPH (GRO+DRO+MRO)	2,500	100
	GRO+DRO	1,000	--
	BTEX	50	--
	Benzene	10	--

*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018

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4 Soil Remediation Activities Summary

Soil remediation activities were performed by Arcadis and eTech Environmental and Safety (eTech) from February 19 through March 13, 2024. To determine the horizontal and vertical extent of soil affected by the release, soils were screened using a photoionization detector (PID) and Hach® test strips for chloride in 1-foot intervals. Analytical results from the previous assessment activities were also evaluated prior to and during remediation activities.

The release impacted an area covering approximately 5,800 square feet surrounding the former tank battery. Excavation activities were conducted to a maximum depth of approximately 5 feet bgs within the release area. Approximately 2,580 cubic yards of impacted soil were excavated and stored on bermed plastic sheeting during excavation activities prior to disposal. The limits of the excavation are presented on **Figure 2**.

The stockpiled soil was disposed offsite at the R360 Landfill facility located in Hobbs, New Mexico as Class 2 non-hazardous material. eTech transported a total of 129 truckloads of soil directly to the landfill between February 23 through March 13, 2024. Copies of disposal manifests can be provided upon request. Photographic documentation of the excavation activities is attached in the **Appendix B**.

4.1 Excavation Confirmation Sampling Activities

Arcadis personnel conducted excavation confirmation soil sampling activities on February 22 through March 6, 2024 for laboratory analysis within the excavated areas. Analytical results from confirmation soil sampling remediation activities was utilized in conjunction with analytical soil sampling data collected during the May 2020 and June 2022 assessment activities to confirm the horizontal and vertical extent of chloride; total petroleum hydrocarbon (TPH); and benzene, toluene, ethylbenzene, and xylene (BTEX) impact in soil above NMAC Closure Criteria for a site with depth to groundwater between 51 feet to 100 feet bgs.

A total of 91 composite base samples and 17 additional composite sidewall samples were collected from the excavated area. All composite soil samples were collected from the excavation floor and sidewalls at intervals to maintain an approximate 200 square foot sample space or less. Composite sidewall confirmation sample locations and composite base confirmation sample locations are depicted on **Figure 3a and Figure 3b**.

The soil confirmation soil samples were collected in four-ounce jars provided by Eurofins Environmental Testing (Eurofins) located in Midland, Texas, then placed on ice and shipped to Eurofins to be analyzed for chloride by United States Environmental Protection Agency (USEPA) Method 300; TPH by USEPA Method 8015 for Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO); and BTEX by USEPA Method 8260. Analytical results are shown in **Table 1**. Laboratory analytical reports are included in **Appendix C**.

4.2 Excavation Confirmation Sampling Results

4.2.1 Chloride

All the soils left in place above 4 feet had total chloride concentrations reported below the NMAC reclamation standard of 600 mg/kg and all composite confirmation samples collected below 4 feet had concentrations below the NMAC screening standard of 10,000 mg/kg following remediation activities.

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4.2.2 Total TPH (GRO+DRO+ORO)

All the soils left in place above 4 feet had total TPH concentrations reported below the NMAC reclamation standard of 100 mg/kg and all composite confirmation samples collected below 4 feet had concentrations below the NMAC screening standard of 2,500 mg/kg following remediation activities.

4.2.3 TPH (GRO+DRO)

TPH (GRO+DRO) concentrations were reported below the NMAC screening standard of 1,000 mg/kg at all composite confirmation soil sample locations following remediation activities.

4.2.4 Benzene

Benzene concentrations were reported below the NMAC standard of 10 mg/kg at all composite confirmation soil sample locations following remediation activities.

4.2.5 Total BTEX

Total BTEX concentrations were reported below the NMAC standard of 50 mg/kg at all composite confirmation soil sample locations following remediation activities.

Composite sidewall confirmation sample locations and composite base confirmation sample analytical results are presented on **Figure 3**.

5 Restoration, Reclamation, and Re-Vegetation Plan

Upon receiving laboratory analytical results from the excavation confirmation soil samples confirming impacted soil over the applicable restoration closure limits was removed from the former tank battery area, the excavated area was backfilled with locally sourced, non-impacted material. The affected area was contoured and compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

6 Summary

Analytical results associated with remediation activities conducted in 2024 indicate that the horizontal and vertical extent of chloride, TPH, and BTEX impact in soil above NMAC Closure Criteria for a site with depth to groundwater between 51 feet to 100 feet have been delineated both horizontally and vertically, and impacted soil above the applicable NMAC Closure Criteria has been excavated from the release area.

7 Soil and Groundwater Closure Request

Remediation activities were conducted in accordance with the NMOCD regulatory guidelines stipulated in NMAC 19.15.29. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to a NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria in each

2024 Remediation Summary and Soil Closure Request

of the submitted soil samples collected from the remediated areas. The Work Plan approval email submitted to Arcadis by NMOCD is included in **Appendix D**.

Based on laboratory analytical results and field activities conducted to date, no additional soil assessment or remediation activities are recommended at this time for the Site. Arcadis requests closure be granted to the SCB Unit 23-14 site for remediation permit number 2RP-4875.

Tables

Table 1
2024 Soil Analytical Results
Chevron Environmental Management Company
SCB 23-14
Loving, New Mexico 88256

Sample I.D. No.	Sample Depth (feet bgs)	Date	Status											
				Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Gasoline Range Organics	Diesel Range Organics	Total GRO+DRO	TPH - ORO	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 Standards				10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements													100*	600*
B-1	2	02/22/2024	Removed	<0.0498	<0.0498	<0.0498	<0.0996	<0.0996	<50.1	<50.1	<50.1	<50.1	<50.1	1310
	4.5	03/05/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	662
B-2	2	02/22/2024	Removed	<0.0502	<0.0502	<0.0502	<0.100	<0.100	<50.4	676	676	<50.4	676	341
	4.5	03/05/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	979	979	<49.9	979	1750
B-3	2	02/22/2024	Removed	<0.0504	<0.0504	<0.0504	<0.101	<0.101	<50.5	712	712	<50.5	712	780
	4.5	03/05/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	61.7	61.7	<49.9	61.7	120
B-4	2	02/22/2024	Removed	<0.0497	<0.0497	<0.0497	<0.0994	<0.0994	<49.7	847	847	<49.7	847	1350
	4.5	03/05/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	56.2	56.2	<50.0	56.2	345
B-5	2	02/22/2024	Removed	<0.0499	<0.0499	<0.0499	<0.0998	<0.0998	<50.0	1240	1240	<50.0	1240	1720
	4.5	03/05/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	189	189	<49.9	189	1090
B-6	2	02/22/2024	Removed	<0.0495	<0.0495	<0.0495	<0.0990	<0.0990	<49.8	329	329	<49.8	329	771
	4.5	03/05/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	635
B-7	2	02/22/2024	Removed	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	542
B-8	3	02/22/2024	Removed	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8	130	130	<49.8	130	114
	4.5	03/01/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	50.7	50.7	<49.8	50.7	1110
B-9	2	02/22/2024	Removed	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	602
	4.5	03/01/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	146	146	<49.8	146	709
B-10	2	02/23/2024	Removed	<0.0398	<0.0398	0.0988	0.585	0.6838	<49.6	967	967	<49.6	967	215F1
	4.5	03/01/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.6	57.3	57.3	<49.6	57.3	361
B-11	2	02/23/2024	Removed	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	129
B-12	4	02/23/2024	Removed	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.4	114	114	<50.4	114	666
	4.5	02/29/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.5	130	130	<50.5	130	995
B-13	4	02/23/2024	Removed	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.5	412	412	<50.5	412	773
	4.5	02/29/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	484
B-14	4	02/23/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	373
B-15	4	02/23/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	439
B-16	4.5	03/05/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	741
B-17	4.5	03/05/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	109
B-18	4.5	03/05/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	162
B-19	4.5	03/06/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	16.4
B-20	4.5	03/06/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	440
B-21	4.5	03/06/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	921
B-22	4.5	03/06/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	750
B-23	4.5	03/06/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	914
B-24	2	02/28/2024	Removed	<0.00211	<0.00211	<0.00211	<0.00421	<0.00421	<52.6	63	63	<52.6	63	977
	4.5	03/06/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	1340
B-25	2	02/28/2024	Removed	<0.00215	<0.00215	<0.00215	<0.00431	<0.00431	<54.2	72.5	72.5	<54.2	72.5	672
	4.5	03/06/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	754
B-26	4.5	03/06/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	734
B-27	2	02/28/2024	Removed	<0.00212	0.00268	<0.00212	<0.00424	<0.00424	<52.3	101	101	<52.3	101	461
	4.5	03/05/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<250	669	669	<250	669	543
B-28	4.5	03/05/2024	Removed	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<250	1440	1440	<250	1440	642
	5	03/13/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	335
B-29	4.5	03/05/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	320
B-30	4.5	03/05/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1070
B-31	4.5	03/05/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	325	325	<50.0	325	604
B-32	4.5	03/05/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	210	210	<49.9	210	1220
B-33	4.5	03/05/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	267	267	<49.9	267	1690
B-34	4.5	03/05/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	110	110	<50.0	110	257
B-35	4.5	03/01/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	447
B-36	4.5	03/06/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	61.2	61.2	<50.0	61.2	607
B-37	4.5	03/06/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	151

Table 1
2024 Soil Analytical Results
Chevron Environmental Management Company
SCB 23-14
Loving, New Mexico 88256

Sample I.D. No.	Sample Depth (feet bgs)	Date	Status											
				Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Gasoline Range Organics	Diesel Range Organics	Total GRO+DRO	TPH - ORO	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 Standards			10	--	--	--	50	--	--	1,000	--	2,500	10,000	
B-38	4.5	03/01/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	220
B-39	4.5	03/01/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	57.8	57.8	<50.0	57.8	331
B-40	4.5	02/29/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	514
B-41	4.5	02/29/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	488
B-42	4.5	02/29/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	565
B-43	4.5	02/29/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	364
B-44	4.5	02/29/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	136
B-45	4.5	02/29/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<50.5	<50.5	<50.5	<50.5	<50.5	183
B-46	4.5	02/29/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	204
B-47	4.5	02/29/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	1200
B-48	4.5	02/29/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1110
B-49	4.5	02/29/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.6	<49.6	<49.6	<49.6	<49.6	580
B-50	4.5	02/29/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	405F1
B-51	4.5	02/29/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	206
B-52	4.5	02/29/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	94.6
B-53	4.5	02/29/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.5	<49.5	<49.5	<49.5	<49.5	132
B-54	4.5	02/29/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	133
B-55	4.5	02/29/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	295
B-56	4.5	03/06/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	79.2
B-57	4.5	03/06/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	144
B-58	4.5	03/06/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.5	223	223	<50.5	223	185
B-59	4.5	03/06/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.5	165	165	<49.5	165	481
B-60	4.5	03/06/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.6	172	172	<49.6	172	495
B-61	4.5	03/04/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	270
B-62	2	03/04/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	68.1
B-63	2	03/04/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	76.8
B-64	2	03/04/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	45.4
B-65	2	03/04/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	76.3
B-66	2	03/04/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	63.9
B-67	4.5	03/04/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	165
B-68	4.5	03/04/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	133
B-69	4.5	03/06/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	586
B-70	4.5	03/06/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.4	85.6	85.6	<50.4	85.6	233
B-71	4.5	03/05/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	70.6	70.6	<50.0	70.6	1270
B-72	4.5	03/05/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.1	85.1	85.1	<50.1	85.1	850F1
B-73	4.5	03/05/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	271
B-74	4.5	03/05/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	686
B-75	4.5	03/05/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	713
B-76	4.5	03/06/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	304
SW-1	4	02/23/2024	Removed	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	695	695	<49.9	695	784
SW-1A	4.5	02/29/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	335
SW-2	4.5	02/29/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.6	<49.6	<49.6	<49.6	<49.6	70
SW-3	4.5	02/29/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	472
SW-4	4.5	02/29/2024	Removed	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	783
SW-4A	4.5	03/05/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	350
SW-5	4.5	02/29/2024	Removed	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	754
SW-5A	4.5	03/05/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	302
SW-6	2	03/04/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	72.5
SW-7	4.5	03/04/2024	In-situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	73.7
SW-8	4.5	03/04/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	61.5
SW-9	4.5	03/04/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	340

Table 1
2024 Soil Analytical Results
Chevron Environmental Management Company
SCB 23-14
Loving, New Mexico 88256



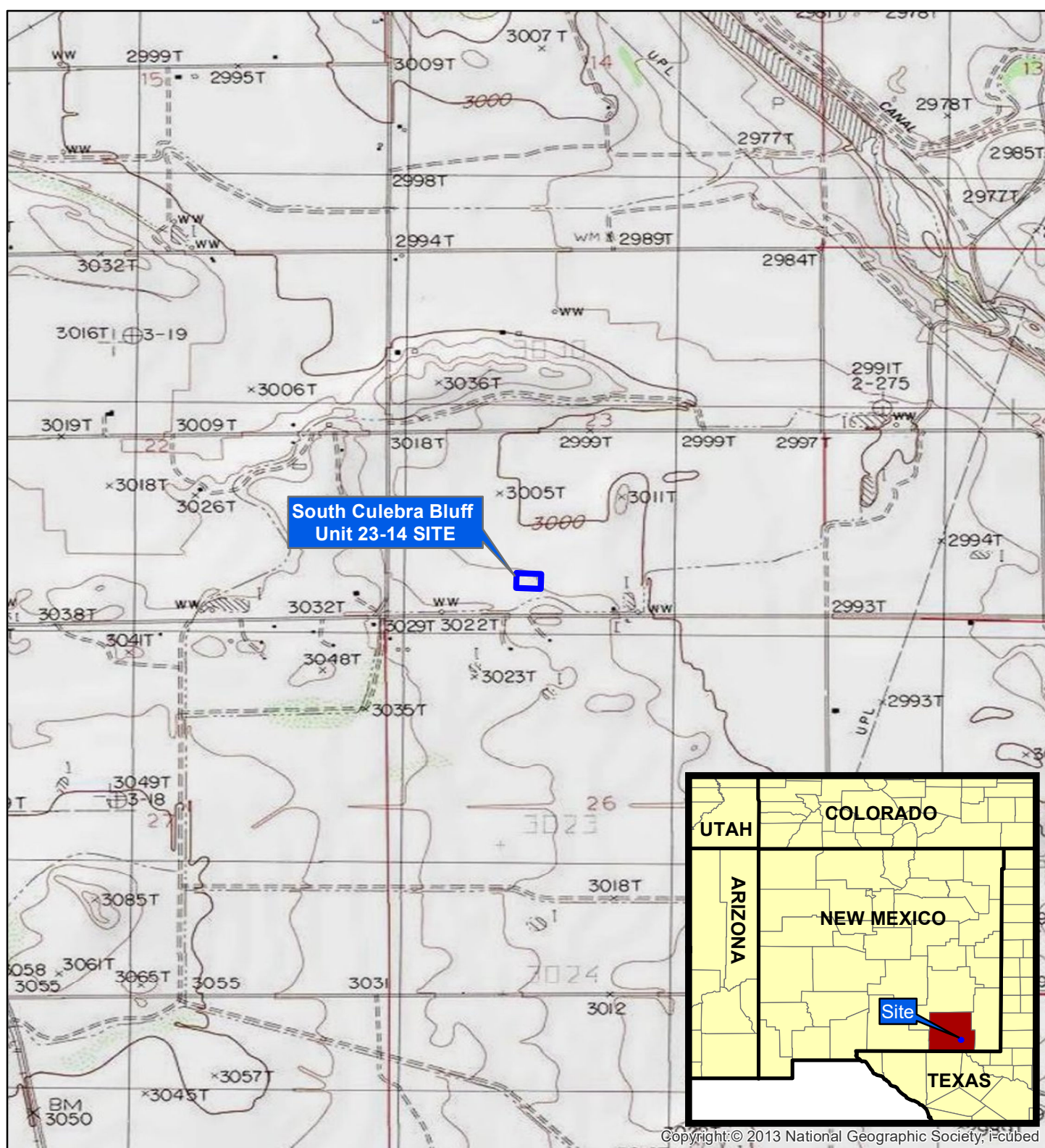
Sample I.D. No.	Sample Depth (feet bgs)	Date	Status											
				Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Gasoline Range Organics	Diesel Range Organics	Total GRO+DRO	TPH - ORO	Total TPH	Chloride
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standards			10	--	--	--	50	--	--	1,000	--	2,500	10,000	
SW-10	4.5	03/04/2024	In-situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	100
SW-11	4.5	03/04/2024	In-situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.3	<50.3	<50.3	<50.3	<50.3	144
SW-12	4.5	03/04/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	321
SW-13	4.5	03/04/2024	In-situ	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	271
SW-14	4.5	03/04/2024	In-situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.5	<50.5	<50.5	<50.5	<50.5	87.7

Legend:
mg/kg: Milligram per Kilogram
BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes
NMAC : New Mexico Administration Code
Bold and *italicized* analytes exceeds NMAC Standards
*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018
" ' " : Indicates one foot
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
bgs: below ground surface
F1: MS and/or MSD recovery exceeds control limits

- Notes:
1. Chloride analyzed by EPA Method 300
 2. TPH analyzed by EPA Method 8015B
 3. BTEX analyzed by EPA Method 8260B
 4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures

Document Path: \\arcadis-us\officedata\Houston-TX\ENV\Chevron\Texaco-TX\ENV\Chevron\Texaco-TX\ENV\HES Transfer\04 Field Investigations\2019\6 - Annual GWMR\Cooper, Jai\GIS - Cooper, Jai\Figure 1 - Site Location Map 01.08.2020

**Legend**

Site Boundary

Notes:

1. Datum: D_WGS_1984
2. Site Location: 32.284872, -104.061228
3. Source: United States Geological Survey 7.5 Minute Quadrangle Map



0 1,000 2,000 4,000
Feet

Chevron Environmental Management Company
South Culebra Bluff Unit 23-14
Sec. 23, T23S, R28E, Eddy County, New Mexico

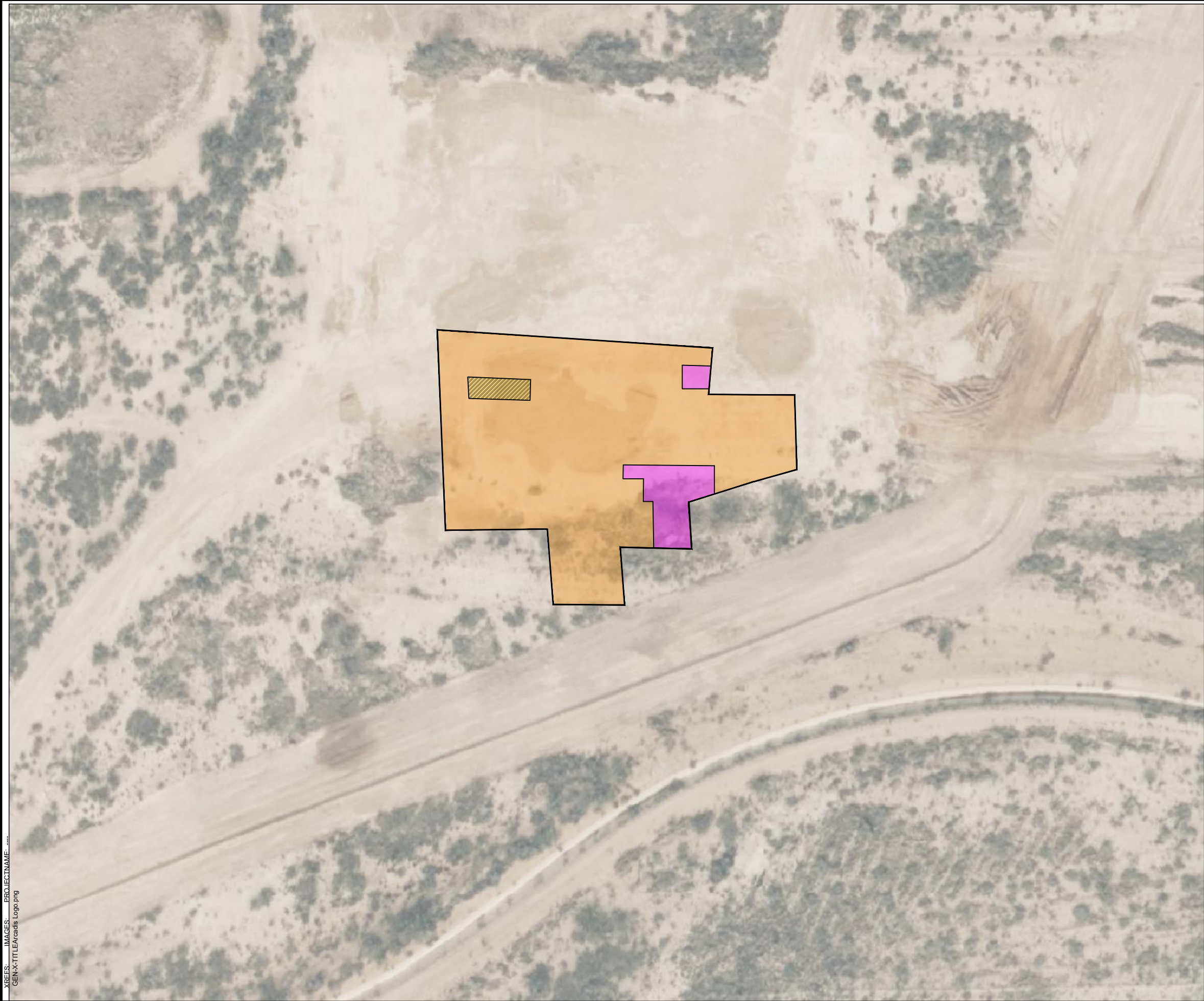
SITE LOCATION MAP

 **ARCADIS**

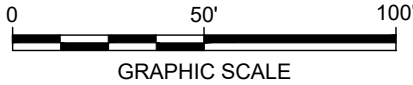
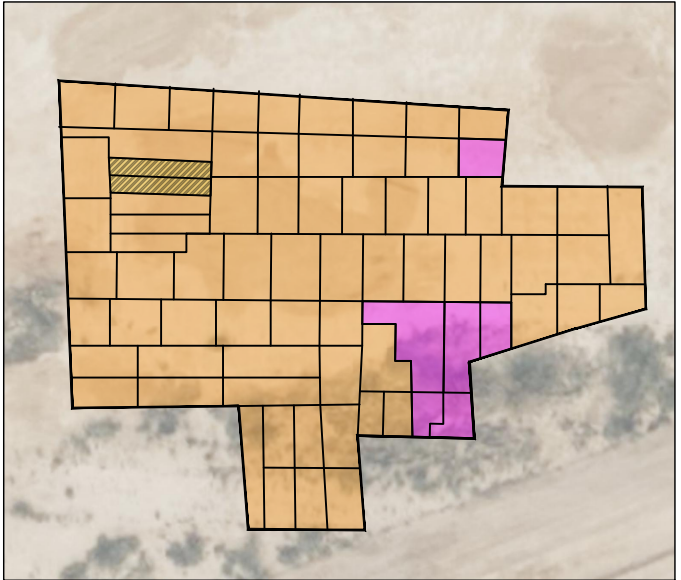
FIGURE

1

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- LEGEND:**
- 4.5' (EXCAVATION DEPTH)
 - 4' (EXCAVATION DEPTH)
 - 2' (EXCAVATION DEPTH)



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
SOUTH CULEBRA BLUFF 23-14
LOVING, NM

EXCAVATION AREA



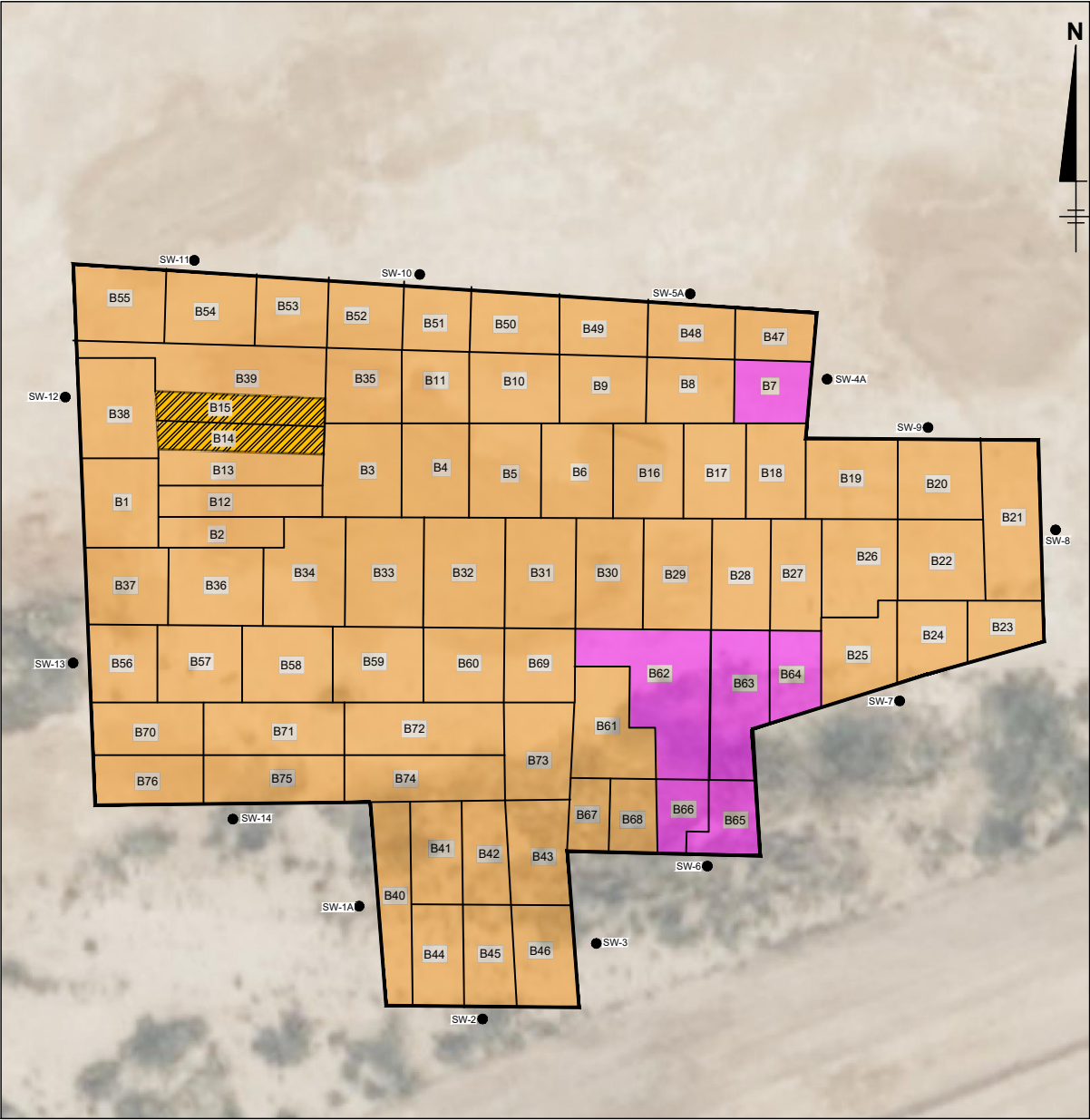
FIGURE
2

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PLOT STYLE TABLE: ---- PLOTTED: 5/15/2024 3:08 PM BY: THORWATH, CHANDRAKANTH
XREFS: IMAGES: PROJECTNAME: GEN-X-TITLE\Arcadis Logo.png

Sample I.D. No.	Sample Depth (feet bgs)	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	Total GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMAC Standards			10	50	1,000	2,500	10,000
B-1	4.5	03/05/2024	<0.00202	<0.00403	<49.9	<49.9	662
B-2	4.5	03/05/2024	<0.00201	<0.00402	979	979	1,750
B-3	4.5	03/05/2024	<0.00201	<0.00402	61.7	61.7	120
B-4	4.5	03/05/2024	<0.00199	<0.00398	56.2	56.2	345
B-5	4.5	03/05/2024	<0.00199	<0.00398	189	189	1,090
B-6	4.5	03/05/2024	<0.00199	<0.00398	<49.9	<49.9	635
B-8	4.5	03/01/2024	<0.00200	<0.00401	50.7	50.7	1,110
B-9	4.5	03/01/2024	<0.00200	<0.00399	146	146	709
B-10	4.5	03/01/2024	<0.00198	<0.00397	57.3	57.3	361
B-12	4.5	02/29/2024	<0.00200	<0.00400	130	130	995
B-13	4.5	02/29/2024	<0.00199	<0.00398	<49.9	<49.9	484
B-14	4	02/23/2024	<0.00200	<0.00399	<50.0	<50.0	373
B-15	4	02/23/2024	<0.00198	<0.00396	<50.0	<50.0	439
B-16	4.5	03/05/2024	<0.00202	<0.00403	<50.0	<50.0	741
B-17	4.5	03/05/2024	<0.00199	<0.00398	<49.9	<49.9	109
B-18	4.5	03/05/2024	<0.00201	<0.00402	<50.0	<50.0	162
B-19	4.5	03/06/2024	<0.00200	<0.00401	<49.9	<49.9	16.4
B-20	4.5	03/06/2024	<0.00199	<0.00398	<49.8	<49.8	440
B-21	4.5	03/06/2024	<0.00200	<0.00399	<49.6	<49.6	921
B-22	4.5	03/06/2024	<0.00201	<0.00402	<49.9	<49.9	750
B-23	4.5	03/06/2024	<0.00200	<0.00401	<50.4	<50.4	914
B-24	4.5	03/06/2024	<0.00199	<0.00398	<50.5	<50.5	1,340
B-25	4.5	03/06/2024	<0.00199	<0.00398	<49.8	<49.8	754
B-26	4.5	03/06/2024	<0.00200	<0.00399	<49.7	<49.7	734
B-27	4.5	03/05/2024	<0.00202	<0.00403	669	669	543
B-28	5	03/13/2024	<0.00199	<0.00398	<50.0	<50.0	335
B-29	4.5	03/05/2024	<0.00200	<0.00400	<49.9	<49.9	320
B-30	4.5	03/05/2024	<0.00198	<0.00396	<49.9	<49.9	1,070
B-31	4.5	03/05/2024	<0.00201	<0.00402	325	325	604
B-32	4.5	03/05/2024	<0.00201	<0.00402	210	210	1,220
B-33	4.5	03/05/2024	<0.00200	<0.00401	267	267	1,690
B-34	4.5	03/05/2024	<0.00199	<0.00398	110	110	257
B-35	4.5	03/01/2024	<0.00200	<0.00400	<49.9	<49.9	447
B-36	4.5	03/06/2024	<0.00201	<0.00402	61.2	61.2	607
B-37	4.5	03/06/2024	<0.00202	<0.00404	<49.6	<49.6	151
B-38	4.5	03/01/2024	<0.00199	<0.00398	<49.7	<49.7	220
B-39	4.5	03/01/2024	<0.00198	<0.00396	57.8	57.8	331
B-40	4.5	02/29/2024	<0.00199	<0.00398	<49.9	<49.9	514
B-41	4.5	02/29/2024	<0.00201	<0.00402	<49.8	<49.8	488
B-42	4.5	02/29/2024	<0.00202	<0.00404	<49.6	<49.6	565
B-43	4.5	02/29/2024	<0.00200	<0.00401	<49.9	<49.9	364
B-44	4.5	02/29/2024	<0.00199	<0.00398	<50.4	<50.4	136
B-45	4.5	02/29/2024	<0.00198	<0.00397	<50.5	<50.5	183
B-46	4.5	02/29/2024	<0.00201	<0.00402	<49.8	<49.8	204

NOTES:

1. mg/kg = MILLIGRAM PER KILOGRAM
2. BTEX = BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
3. NMAC = NEW MEXICO ADMINISTRATION CODE
4. < = INDICATES THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
5. bgs = BELOW GROUND SURFACE
6. F1 = MS AND/OR MSD RECOVERY EXCEEDS CONTROL LIMITS
7. CHLORIDE ANALYZED BY EPA METHOD 9056A
8. TPH ANALYZED BY EPA METHOD 8015B
9. BTEX ANALYZED BY EPA METHOD 8260B
10. CLOSURE CRITERIA NEW MEXICO ADMINISTRATIVE CODE 19.15.29.12.E(2)
11. B = BASE SAMPLE
12. TPH = TOTAL PETROLEUM HYDROCARBONS
13. GRO = GASOLINE RANGE ORGANICS [C6-C10]
14. DRO = DIESEL RANGE ORGANICS [C10-C28]



LEGEND:

- 5' X 5' (APPROXIMATE EXCAVATION AREA)
- 4.5' (EXCAVATION DEPTH)
- 4' (EXCAVATION DEPTH)
- 2' (EXCAVATION DEPTH)
- SW-8

SW'S (SIDE WALLS)

NOT TO SCALE

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
SOUTH CULEBRA BLUFF 23-14
LOVING, NM

SOIL ANALYTICAL MAP

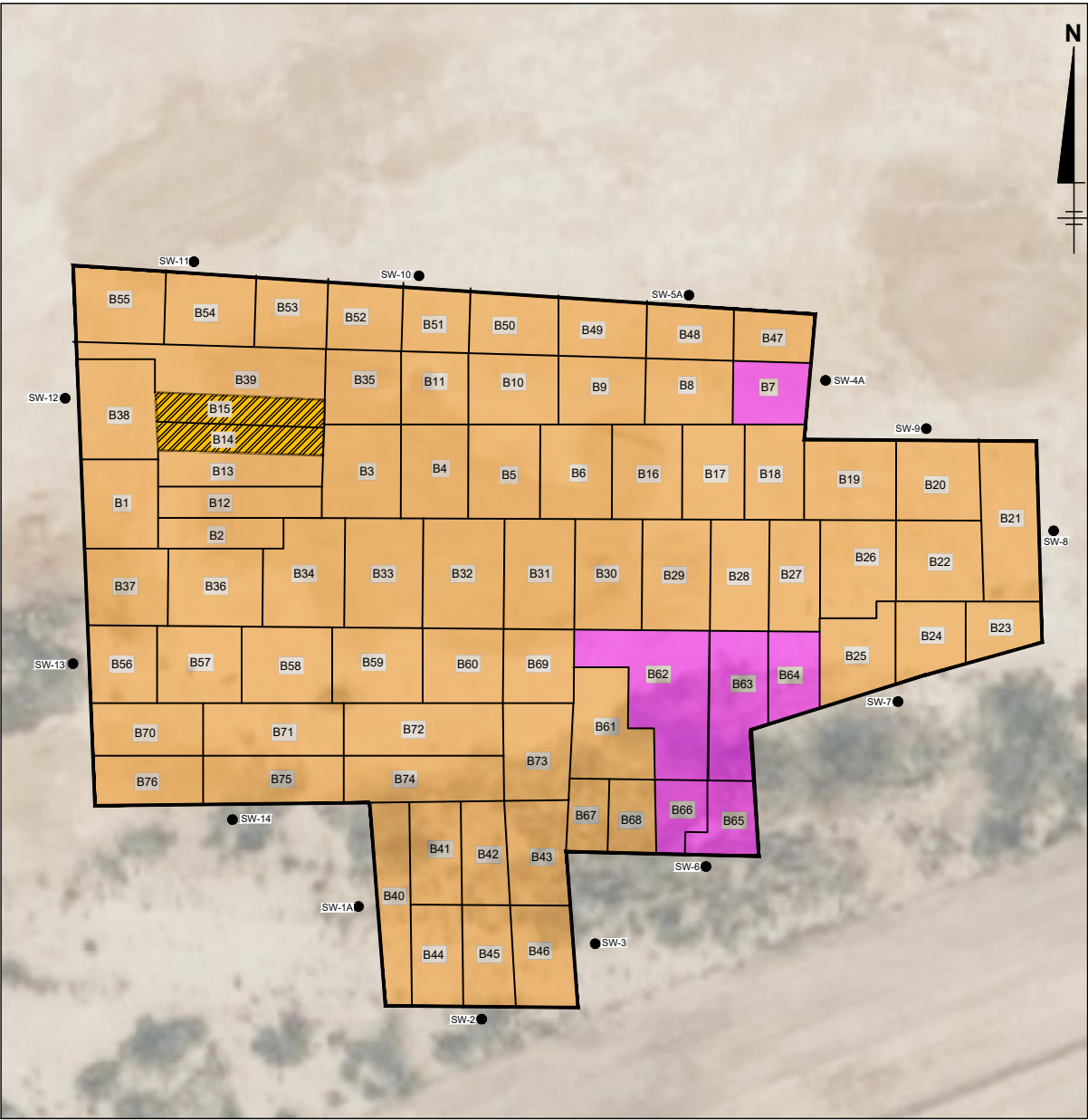
ARCADIS

FIGURE
3a

Sample I.D. No.	Sample Depth (feet bgs)	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	Total GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMAC Standards			10	50	1,000	2,500	10,000
B-47	4.5	02/29/2024	<0.00199	<0.00398	<49.7	<49.7	1,200
B-48	4.5	02/29/2024	<0.00200	<0.00399	<50.0	<50.0	1,110
B-49	4.5	02/29/2024	<0.00198	<0.00396	<49.6	<49.6	580
B-50	4.5	02/29/2024	<0.00199	<0.00398	<50.1	<50.1	405 F1
B-51	4.5	02/29/2024	<0.00202	<0.00403	<50.4	<50.4	206
B-52	4.5	02/29/2024	<0.00201	<0.00402	<50.5	<50.5	94.6
B-53	4.5	02/29/2024	<0.00200	<0.00401	<49.5	<49.5	132
B-54	4.5	02/29/2024	<0.00200	<0.00399	<49.6	<49.6	133
B-55	4.5	02/29/2024	<0.00198	<0.00397	<49.7	<49.7	295
B-56	4.5	03/06/2024	<0.00199	<0.00398	<50.1	<50.1	79.2
B-57	4.5	03/06/2024	<0.00199	<0.00398	<50.4	<50.4	144
B-58	4.5	03/06/2024	<0.00200	<0.00399	223	223	185
B-59	4.5	03/06/2024	<0.00201	<0.00402	165	165	481
B-60	4.5	03/06/2024	<0.00200	<0.00401	172	172	495
B-61	4.5	03/04/2024	<0.00199	<0.00398	<50.0	<50.0	270
B-62	2	03/04/2024	<0.00202	<0.00403	<49.8	<49.8	68.1
B-63	2	03/04/2024	<0.00199	<0.00398	<49.6	<49.6	76.8
B-64	2	03/04/2024	<0.00200	<0.00399	<50.4	<50.4	45.4
B-65	2	03/04/2024	<0.00198	<0.00396	<49.7	<49.7	76.3
B-66	2	03/04/2024	<0.00201	<0.00402	<50.0	<50.0	63.9
B-67	4.5	03/04/2024	<0.00202	<0.00404	<50.0	<50.0	165
B-68	4.5	03/04/2024	<0.00200	<0.00399	<50.1	<50.1	133
B-69	4.5	03/06/2024	<0.00199	<0.00398	<50.1	<50.1	586
B-70	4.5	03/06/2024	<0.00199	<0.00398	85.6	85.6	233
B-71	4.5	03/05/2024	<0.00200	<0.00400	70.6	70.6	1,270
B-72	4.5	03/05/2024	<0.00198	<0.00396	85.1	85.1	850 F1
B-73	4.5	03/05/2024	<0.00201	<0.00402	<49.7	<49.7	271
B-74	4.5	03/05/2024	<0.00202	<0.00403	<50.0	<50.0	686
B-75	4.5	03/05/2024	<0.00199	<0.00398	<49.8	<49.8	713
B-76	4.5	03/06/2024	<0.00200	<0.00399	<50.3	<50.3	304
SW-1A	4.5	02/29/2024	<0.00198	<0.00396	<49.8	<49.8	335
SW-2	4.5	02/29/2024	<0.00202	<0.00403	<49.6	<49.6	70.3
SW-3	4.5	02/29/2024	<0.00199	<0.00398	<50.1	<50.1	472
SW-4A	4.5	03/05/2024	<0.00199	<0.00398	<49.9	<49.9	350
SW-5A	4.5	03/05/2024	<0.00201	<0.00402	<50.0	<50.0	302
SW-6	2	03/04/2024	<0.00202	<0.00403	<49.9	<49.9	72.5
SW-7	4.5	03/04/2024	<0.00199	<0.00398	<49.7	<49.7	73.7
SW-8	4.5	03/04/2024	<0.00200	<0.00399	<50.0	<50.0	61.5
SW-9	4.5	03/04/2024	<0.00198	<0.00396	<50.1	<50.1	340
SW-10	4.5	03/04/2024	<0.00201	<0.00402	<50.4	<50.4	100
SW-11	4.5	03/04/2024	<0.00202	<0.00404	<50.3	<50.3	144
SW-12	4.5	03/04/2024	<0.00200	<0.00399	<50.1	<50.1	321
SW-13	4.5	03/04/2024	<0.00198	<0.00396	<50.4	<50.4	271
SW-14	4.5	03/04/2024	<0.00200	<0.00400	<50.5	<50.5	87.7

NOTES:

1. mg/kg = MILLIGRAM PER KILOGRAM
2. BTEX = BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
3. NMAC = NEW MEXICO ADMINISTRATION CODE
4. < = INDICATES THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
5. bgs = BELOW GROUND SURFACE
6. F1 = MS AND/OR MSD RECOVERY EXCEEDS CONTROL LIMITS
7. CHLORIDE ANALYZED BY EPA METHOD 9056A
8. TPH ANALYZED BY EPA METHOD 8015B
9. BTEX ANALYZED BY EPA METHOD 8260B
10. CLOSURE CRITERIA NEW MEXICO ADMINISTRATIVE CODE 19.15.29.12.E(2)
11. B = BASE SAMPLE
12. TPH = TOTAL PETROLEUM HYDROCARBONS
13. GRO = GASOLINE RANGE ORGANICS [C6-C10]
14. DRO = DIESEL RANGE ORGANICS [C10-C28]



LEGEND:

- 5' X 5' (APPROXIMATE EXCAVATION AREA)
- 4.5' (EXCAVATION DEPTH)
- 4' (EXCAVATION DEPTH)
- 2' (EXCAVATION DEPTH)
- SW-8

SW'S (SIDE WALLS)

NOT TO SCALE

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
SOUTH CULEBRA BLUFF 23-14
LOVING, NM

SOIL ANALYTICAL MAP



FIGURE

3b

Appendix A

Site Background Summary and Initial C-141 Form

Appendix A. Initial Investigation Activities



2018 Assessment Activities

On July 14, 2018, a release due to equipment failure from the circulatory pump that controls the oil tank was discovered at the Site. Rockcliff Operating New Mexico, LLC (Rockcliff) (the previous operator of this well) notified the New Mexico Oil Conservation Division (NMOCD) of the release and it was assigned remediation permit number 2RP-4875. According to the NMOCD Initial C-141 Form filed by Rockcliff on July 23, 2018, the oil was contained within the earthen firewall. Initial response activities included turning off the circulatory pump and wells. A vacuum truck was utilized to remove standing fluids. The Initial C-141 Form indicates that approximately 60 barrels (bbls) of oil and 20 bbls of oil and rain mixture were recovered. The fluids were disposed of at a NMOCD approved facility.

According to available file information, on July 16, 2018, Souder Miller Associates (SMA) collected eight soil samples to depths ranging from 1 to 3 feet below ground surface (ft bgs) within the impacted area (L1, L2, L3 and L4). The soil samples were submitted for laboratory analysis for chloride using EPA Method 300; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and total petroleum hydrocarbons (TPH) motor, diesel and gasoline range organics (ORO, DRO, and GRO) by EPA Method 8015D.

On August 3, 2018, SMA collected an additional seven soil samples at the L1, L3 and L4 locations to depths ranging from 4 to 8 ft bgs. The soil samples were collected for laboratory analysis for chloride using EPA Method 300, BTEX using EPA Method 8021B and/or TPH (MRO, DRO and GRO) by EPA Method 8015D.

On September 17, 2018, SMA collected eleven additional soil samples at the L2 and L3 locations to depths ranging from 5 to 30 ft bgs. The soil samples were collected for laboratory analysis for chloride using EPA Method 300, BTEX using EPA Method 8021B and/or TPH (MRO, DRO and GRO) by EPA Method 8015D.

Total TPH exceeded NMOCD screening criteria (100 milligrams per kilogram (mg/Kg)) for sites with a depth to water less than 50 ft bgs at the following sample locations:

• L1 at 1 ft bgs: 29,200 mg/Kg	• L3 at 5 ft bgs: 650 mg/kg
• L2 at 1 ft bgs: 7,290 mg/Kg	• L4 at 1 ft bgs: 7,860 mg/Kg
• L3 at 1 ft bgs: 8,044 mg/Kg	

Chloride exceeded NMOCD screening criteria (600 mg/Kg) for sites with a depth to groundwater less than 50 ft bgs at the following sample locations:

• L2 at 1 ft bgs: 6,600 mg/Kg	• L3 at 5 ft bgs: 2,000 mg/Kg	• L3 at 14 ft bgs: 610 mg/Kg
• L3 at 1 ft bgs: 1,100 mg/Kg	• L3 at 8 ft bgs: 920 mg/Kg	
• L3 at 2 ft bgs: 1,100 mg/Kg	• L3 at 10 ft bgs: 1,000 mg/kg	

Chevron acquired the lease for this well in October 2018. CEMC requested to defer site investigation and remediation activities until the facility is decommissioned in a Site Deferral Request Letter submitted to the NMOCD on June 13, 2019. On June 25, 2019, Robert Hamlet (NMOCD District 2) denied the deferral request.

Appendix A. Initial Investigation Activities



Mr. Hamlet requested removal of the top foot of soil within the berm due to the elevated TPH above the site specific NMOCD soil screening criteria for total TPH with groundwater less than 50 ft bgs (100 mg/Kg). The following soil assessment activities were conducted to further assess soil conditions prior to decommissioning activities at the Site. Chevron operations has subsequently plugged and abandoned the well head and decommissioned all ancillary production equipment at the Site.

2020 Assessment Activities

On May 4-5, 2020, Arcadis personnel collected soil samples at fifteen locations (HA-1 through HA-15) within the release area. The soil samples were collected with a hand auger at depths ranging from the surface (0"-3") to approximately 5 ft bgs. The sample locations were determined based on information obtained associated with the previous release. The soil samples were collected in two- and four-ounce jars provided by Eurofins TestAmerica Laboratory and shipped overnight via FedEx. Upon receipt by the laboratory, the soil samples were analyzed for chloride, TPH (GRO, DRO, and ORO), and BTEX by USEPA Methods 300, 8015 and 8021B, respectively.

Analytical results associated with recent assessment activities conducted in 2020 indicated that the horizontal and vertical delineation of chloride, TPH, and BTEX impact in soil has not been fully delineated.

2022 Assessment Activities

On June 27 – 29, 2022, Arcadis personnel collected 82 soil samples from 15 locations (SB-1 through SB-14 and TMW-1) surrounding the footprint of the former tank battery. The soil boring locations were determined based on the analytical results from the previous assessments. The soil borings were advanced using air rotary equipment. Soil samples were collected at depths ranging from the surface (0-0.5' bgs) to approximately 20 feet bgs and 55 feet bgs at the one boring completed as a temporary monitoring well (TMW-1). The soil cuttings were returned to the respective boring locations. The soil samples were collected in four-ounce jars provided by Pace Analytical Laboratory (Pace) in Mt. Juliet, Tennessee. Upon receipt by the laboratory, the soil samples were analyzed for chloride, TPH (GRO, DRO, and ORO), and BTEX by USEPA Methods 300, 8015 and 8021B, respectively.

Analytical results associated with recent assessment activities conducted in 2022 indicated that the horizontal and vertical delineation of BTEX and TPH has been delineated. Chloride concentrations exceed the restoration screening criteria of 600 mg/kg within 9 of the 82 soil samples collected, however concentrations are below the revised NMOCD screening criteria of 10,000 mg/Kg for chloride in soil at a site with groundwater between 51-100 feet bgs.

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

State of New Mexico
Energy Minerals and Natural Resources

JUL 23 2018

Form C-141
Revised April 3, 2017

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

Submit 1 Copy to appropriate District Office in
DISTRICT II-ARTESIA, N.M. with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1821142197

371115

OPERATOR

☒ Initial Report ☐ Final Report

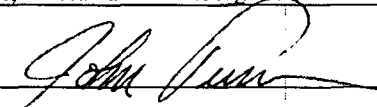
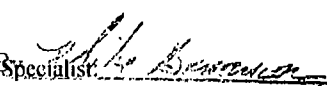
Name of Company: Rockcliff Operating New Mexico LLC	Contact: John Turner
Address: 1301 McKinney St, Suite 1300, Houston, TX 77010	Telephone No.: 903-643-3791
Facility Name : South Culebra Bluff Unit 23 #14	Facility Type: Oil & Gas Production CTB
Surface Owner: John Draper Brantley, Jr.	Mineral Owner: Private
API No. 30-015-33607	

LOCATION OF RELEASE

Unit Letter N	Section 23	Township 23S	Range 28E	Feet from the 990	North/South Line South	Feet from the 1650	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.284873 Longitude -104.061240 NAD 83

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: ~132 bbls	Volume Recovered: ~60 bbls + 20 bbls of oil and rainwater mixture
Source of Release: Oil Storage Tank	Date and Hour of Occurrence: 7/14/18, HR unknown	Date and Hour of Discovery: 7/14/18, 0900hrs
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Gilbert Cordero	
By Whom? John Turner	Date and Hour: 7/14/18; 1436hrs	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.* Lease operator was performing normal rounds when he got to the SCB 23-14, he saw the oil tank over spilling and noticed the circulating pump was on hand causing the tank to overfill. He turned the circulating pump to off and turned off wells going to the battery to stop overfill.		
Describe Area Affected and Cleanup Action Taken.* The release was contained within the earthen firewall. Vacuum truck removed approximately 60 bbls of oil on 7/14/18 and approximately 20 bbls of oil and rainwater mixture on 7/15/18. Souder, Miller and Associates was contacted to perform delineation, cleanup and remediation. Delineation samples were collected on 7/16/18.		
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: John Turner		Approved by Environmental Specialist: 
Title: Field Sr. Environmental Specialist	Approval Date: 7/24/18	Expiration Date: N/A
E-mail Address: jturner@rockcliffenergy.com	Conditions of Approval: See attached	
Date: 7/23/18	Phone: 903-475-1865	Attached: AP-4875

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/23/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4875 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 8/23/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: John Turner <John.Turner@Rockcliffenergy.com>
Sent: Monday, July 23, 2018 1:49 PM
To: Bratcher, Mike, EMNRD
Cc: Mike Martin; Nick Koch; Jamie Robinson; Ed Abels; Chris Simon
Subject: South Culebra Bluff Unit 23 #14 C-141 Release Notification; API#30-015-33607 - Rockcliff Energy Operating New Mexico LLC
Attachments: SCB_23_14_C-141_Submittal_7-23-18.pdf

Please find attached the initial Form C-141, Release Notification and Corrective Action, for the release that occurred at Rockcliff Operating New Mexico LLC's SCB 23 #14 Facility in Eddy County on July 14, 2018.

If you have any questions or concerns please do not hesitate to contact me.

John Turner
Rockcliff Energy Operating LLC
Sr. Environmental Specialist
342 Johnny Clark Rd
Longview, TX 75603
O: (903) 475-1865
C: (903) 261-4673
jturner@rockcliffenergy.com

Appendix B

Photographic Log

Photograph Log



Appendix B
Remediation Summary and Soil Closure Request Report
Loving, New Mexico



Photograph: 1

Description:
Excavation on east
side of property.
Pipeline uncovered.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 2/26/2024



Photograph: 2

Description:
Excavation continues
to remove impacted
soils.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 2/27/2024

Photograph Log



Appendix B
Remediation Summary and Soil Closure Request Report
Loving, New Mexico



Photograph: 3

Description:
Excavation continues
to remove impacted
soils.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 2/28/2024



Photograph: 4

Description:
Excavation continues
to remove impacted
soils.

Location: SCB 23-14

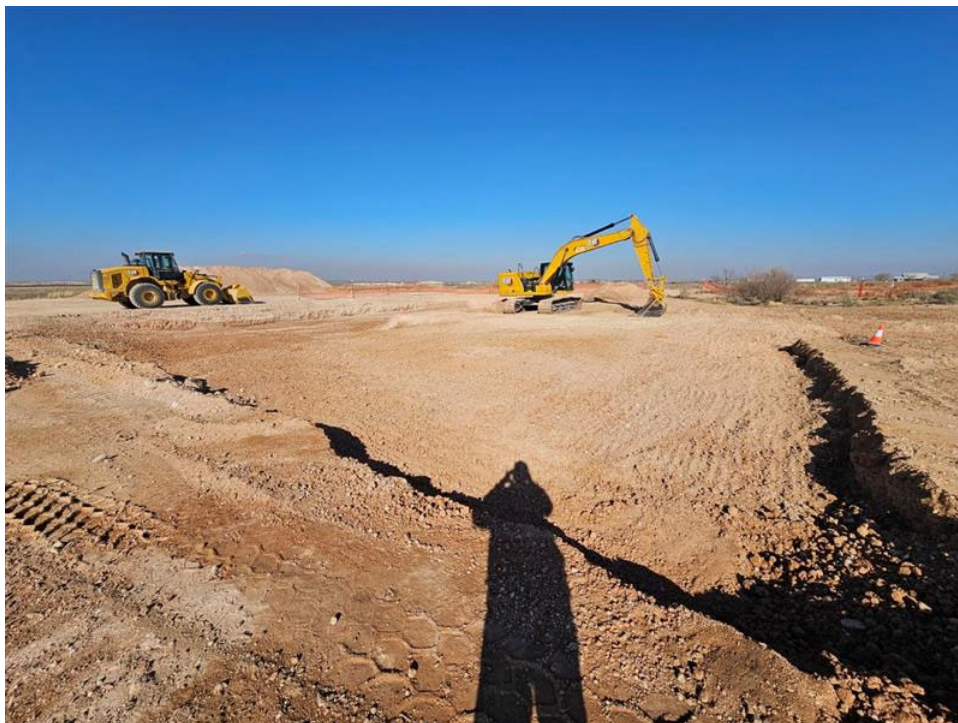
Photograph taken by:
Heath Boyd

Date: 2/28/2024

Photograph Log



Appendix B
Remediation Summary and Soil Closure Request Report
Loving, New Mexico



Photograph: 5

Description:
Excavation continues
to remove impacted
soils.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 2/29/2024



Photograph: 6

Description:
Excavation continues
to remove impacted
soils.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 2/29/2024

Photograph Log



Appendix B
Remediation Summary and Soil Closure Request Report
Loving, New Mexico



Photograph: 7

Description:
Excavation continues
to remove impacted
soils.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 3/1/2024



Photograph: 8

Description:
Excavation continues
to remove impacted
soils.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 3/7/2024

Photograph Log



Appendix B
Remediation Summary and Soil Closure Request Report
Loving, New Mexico



Photograph: 9

Description:
Excavation continues
to remove impacted
soils.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 3/7/2024



Photograph: 10

Description:
Excavation continues
to remove impacted
soils.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 3/7/2024

Photograph Log



Appendix B
Remediation Summary and Soil Closure Request Report
Loving, New Mexico



Photograph: 11

Description:
Excavators begin to
backfill excavated
area.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 3/14/2024



Photograph: 12

Description: Area is
backfilled with caliche
and contoured and
compacted.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 3/15/2024

Photograph Log



Appendix B
Remediation Summary and Soil Closure Request Report
Loving, New Mexico



Photograph: 13

Description: Area is backfilled with caliche and contoured and compacted.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 3/19/2024



Photograph: 14

Description: Area is backfilled with caliche and contoured and compacted.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 3/19/2024

Photograph Log



Appendix B
Remediation Summary and Soil Closure Request Report
Loving, New Mexico



Photograph: 15

Description: Area is backfilled with caliche and contoured and compacted.

Location: SCB 23-14

Photograph taken by:
Heath Boyd

Date: 3/19/2024

Appendix C

Laboratory Data



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sarah Johnson
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 2/27/2024 3:39:27 PM

JOB DESCRIPTION

SCB 23-14

JOB NUMBER

890-6251-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
2/27/2024 3:39:27 PM

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

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Laboratory Job ID: 890-6251-1

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QC Association Summary	18
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- 14

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Qualifiers

GC VOA

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

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: SCB 23-14

Job ID: 890-6251-1

Job ID: 890-6251-1

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Job Narrative 890-6251-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/23/2024 10:51 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-1 (890-6251-1), B-2 (890-6251-2), B-3 (890-6251-3), B-4 (890-6251-4), B-5 (890-6251-5), B-6 (890-6251-6), B-7 (890-6251-7), B-8 (890-6251-8) and B-9 (890-6251-9).

GC VOA

Method 8021B: The following samples were diluted due to physical characteristics of the sample, such as color, odor, appearance, viscosity, etc.: B-1 (890-6251-1), B-2 (890-6251-2), B-3 (890-6251-3), B-4 (890-6251-4), B-5 (890-6251-5) and B-6 (890-6251-6). Elevated reporting limits (RL) are provided.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-73996/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73993 recovered under the lower control limit for Ethylbenzene, 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.

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 880-74001 and analytical batch 880-74025 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-1 (890-6251-1), B-2 (890-6251-2), B-3 (890-6251-3), B-4 (890-6251-4), B-5 (890-6251-5), B-6 (890-6251-6), B-7 (890-6251-7), B-8 (890-6251-8), B-9 (890-6251-9), (890-6251-A-7-F MS) and (890-6251-A-7-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-74001 and analytical batch 880-74025. The associated laboratory control sample (LCS) met acceptance criteria.

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

HPLC/IC

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

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-1

Lab Sample ID: 890-6251-1

Date Collected: 02/22/24 14:45

Matrix: Solid

Date Received: 02/23/24 10:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0498	U	0.0498		mg/Kg		02/26/24 08:29	02/26/24 11:59	25
Toluene	<0.0498	U	0.0498		mg/Kg		02/26/24 08:29	02/26/24 11:59	25
Ethylbenzene	<0.0498	U	0.0498		mg/Kg		02/26/24 08:29	02/26/24 11:59	25
m-Xylene & p-Xylene	<0.0996	U	0.0996		mg/Kg		02/26/24 08:29	02/26/24 11:59	25
o-Xylene	<0.0498	U	0.0498		mg/Kg		02/26/24 08:29	02/26/24 11:59	25
Xylenes, Total	<0.0996	U	0.0996		mg/Kg		02/26/24 08:29	02/26/24 11:59	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/26/24 08:29	02/26/24 11:59	25
1,4-Difluorobenzene (Surr)	109		70 - 130	02/26/24 08:29	02/26/24 11:59	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0996	U	0.0996		mg/Kg			02/26/24 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/26/24 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		02/26/24 09:46	02/26/24 17:53	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/26/24 09:46	02/26/24 17:53	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/26/24 09:46	02/26/24 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	2	S1-	70 - 130	02/26/24 09:46	02/26/24 17:53	1
o-Terphenyl	0.3	S1-	70 - 130	02/26/24 09:46	02/26/24 17:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		49.5		mg/Kg			02/26/24 10:10	10

Client Sample ID: B-2

Lab Sample ID: 890-6251-2

Date Collected: 02/22/24 14:50

Matrix: Solid

Date Received: 02/23/24 10:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0502	U	0.0502		mg/Kg		02/26/24 08:29	02/26/24 12:20	25
Toluene	<0.0502	U	0.0502		mg/Kg		02/26/24 08:29	02/26/24 12:20	25
Ethylbenzene	<0.0502	U	0.0502		mg/Kg		02/26/24 08:29	02/26/24 12:20	25
m-Xylene & p-Xylene	<0.100	U	0.100		mg/Kg		02/26/24 08:29	02/26/24 12:20	25
o-Xylene	<0.0502	U	0.0502		mg/Kg		02/26/24 08:29	02/26/24 12:20	25
Xylenes, Total	<0.100	U	0.100		mg/Kg		02/26/24 08:29	02/26/24 12:20	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	02/26/24 08:29	02/26/24 12:20	25
1,4-Difluorobenzene (Surr)	116		70 - 130	02/26/24 08:29	02/26/24 12:20	25

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-2

Lab Sample ID: 890-6251-2

Date Collected: 02/22/24 14:50

Matrix: Solid

Date Received: 02/23/24 10:51

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.100	U	0.100		mg/Kg			02/26/24 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	676		50.4		mg/Kg			02/26/24 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/26/24 09:46	02/26/24 18:18	1
Diesel Range Organics (Over C10-C28)	676		50.4		mg/Kg		02/26/24 09:46	02/26/24 18:18	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/26/24 09:46	02/26/24 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	22	S1-	70 - 130				02/26/24 09:46	02/26/24 18:18	1
o-Terphenyl	18	S1-	70 - 130				02/26/24 09:46	02/26/24 18:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	341		5.05		mg/Kg			02/26/24 10:14	1

Client Sample ID: B-3

Lab Sample ID: 890-6251-3

Date Collected: 02/22/24 14:55

Matrix: Solid

Date Received: 02/23/24 10:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0504	U	0.0504		mg/Kg		02/26/24 08:29	02/26/24 12:41	25
Toluene	<0.0504	U	0.0504		mg/Kg		02/26/24 08:29	02/26/24 12:41	25
Ethylbenzene	<0.0504	U	0.0504		mg/Kg		02/26/24 08:29	02/26/24 12:41	25
m-Xylene & p-Xylene	<0.101	U	0.101		mg/Kg		02/26/24 08:29	02/26/24 12:41	25
o-Xylene	<0.0504	U	0.0504		mg/Kg		02/26/24 08:29	02/26/24 12:41	25
Xylenes, Total	<0.101	U	0.101		mg/Kg		02/26/24 08:29	02/26/24 12:41	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				02/26/24 08:29	02/26/24 12:41	25
1,4-Difluorobenzene (Surr)	109		70 - 130				02/26/24 08:29	02/26/24 12:41	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.101	U	0.101		mg/Kg			02/26/24 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	712		50.5		mg/Kg			02/26/24 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	<50.5	U	50.5		mg/Kg		02/26/24 09:46	02/26/24 18:42	1
Diesel Range Organics (Over C10-C28)	712		50.5		mg/Kg		02/26/24 09:46	02/26/24 18:42	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-3

Lab Sample ID: 890-6251-3

Date Collected: 02/22/24 14:55

Matrix: Solid

Date Received: 02/23/24 10:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/26/24 09:46	02/26/24 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	36	S1-	70 - 130				02/26/24 09:46	02/26/24 18:42	1
o-Terphenyl	30	S1-	70 - 130				02/26/24 09:46	02/26/24 18:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	780		4.95		mg/Kg			02/26/24 10:19	1

Client Sample ID: B-4

Lab Sample ID: 890-6251-4

Date Collected: 02/22/24 15:00

Matrix: Solid

Date Received: 02/23/24 10:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0497	U	0.0497		mg/Kg		02/26/24 08:29	02/26/24 13:02	25
Toluene	<0.0497	U	0.0497		mg/Kg		02/26/24 08:29	02/26/24 13:02	25
Ethylbenzene	<0.0497	U	0.0497		mg/Kg		02/26/24 08:29	02/26/24 13:02	25
m-Xylene & p-Xylene	<0.0994	U	0.0994		mg/Kg		02/26/24 08:29	02/26/24 13:02	25
o-Xylene	<0.0497	U	0.0497		mg/Kg		02/26/24 08:29	02/26/24 13:02	25
Xylenes, Total	<0.0994	U	0.0994		mg/Kg		02/26/24 08:29	02/26/24 13:02	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				02/26/24 08:29	02/26/24 13:02	25
1,4-Difluorobenzene (Surr)	118		70 - 130				02/26/24 08:29	02/26/24 13:02	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0994	U	0.0994		mg/Kg			02/26/24 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	847		49.7		mg/Kg			02/26/24 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/26/24 09:46	02/26/24 19:06	1
Diesel Range Organics (Over C10-C28)	847		49.7		mg/Kg		02/26/24 09:46	02/26/24 19:06	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/26/24 09:46	02/26/24 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	39	S1-	70 - 130				02/26/24 09:46	02/26/24 19:06	1
o-Terphenyl	34	S1-	70 - 130				02/26/24 09:46	02/26/24 19:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		24.9		mg/Kg			02/26/24 10:23	5

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-5

Lab Sample ID: 890-6251-5

Date Collected: 02/22/24 15:05

Matrix: Solid

Date Received: 02/23/24 10:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0499	U	0.0499		mg/Kg		02/26/24 08:29	02/26/24 13:23	25
Toluene	<0.0499	U	0.0499		mg/Kg		02/26/24 08:29	02/26/24 13:23	25
Ethylbenzene	<0.0499	U	0.0499		mg/Kg		02/26/24 08:29	02/26/24 13:23	25
m-Xylene & p-Xylene	<0.0998	U	0.0998		mg/Kg		02/26/24 08:29	02/26/24 13:23	25
o-Xylene	<0.0499	U	0.0499		mg/Kg		02/26/24 08:29	02/26/24 13:23	25
Xylenes, Total	<0.0998	U	0.0998		mg/Kg		02/26/24 08:29	02/26/24 13:23	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	02/26/24 08:29	02/26/24 13:23	25
1,4-Difluorobenzene (Surr)	113		70 - 130	02/26/24 08:29	02/26/24 13:23	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0998	U	0.0998		mg/Kg			02/26/24 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1240		50.0		mg/Kg			02/26/24 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 19:31	1
Diesel Range Organics (Over C10-C28)	1240		50.0		mg/Kg		02/26/24 09:46	02/26/24 19:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	42	S1-	70 - 130	02/26/24 09:46	02/26/24 19:31	1
o-Terphenyl	39	S1-	70 - 130	02/26/24 09:46	02/26/24 19:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1720		25.3		mg/Kg			02/26/24 10:38	5

Client Sample ID: B-6

Lab Sample ID: 890-6251-6

Date Collected: 02/22/24 15:10

Matrix: Solid

Date Received: 02/23/24 10:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0495	U	0.0495		mg/Kg		02/26/24 08:29	02/26/24 13:44	25
Toluene	<0.0495	U	0.0495		mg/Kg		02/26/24 08:29	02/26/24 13:44	25
Ethylbenzene	<0.0495	U	0.0495		mg/Kg		02/26/24 08:29	02/26/24 13:44	25
m-Xylene & p-Xylene	<0.0990	U	0.0990		mg/Kg		02/26/24 08:29	02/26/24 13:44	25
o-Xylene	<0.0495	U	0.0495		mg/Kg		02/26/24 08:29	02/26/24 13:44	25
Xylenes, Total	<0.0990	U	0.0990		mg/Kg		02/26/24 08:29	02/26/24 13:44	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	02/26/24 08:29	02/26/24 13:44	25
1,4-Difluorobenzene (Surr)	116		70 - 130	02/26/24 08:29	02/26/24 13:44	25

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-6

Lab Sample ID: 890-6251-6

Date Collected: 02/22/24 15:10

Matrix: Solid

Date Received: 02/23/24 10:51

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0990	U	0.0990		mg/Kg			02/26/24 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	329		49.8		mg/Kg			02/26/24 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/26/24 09:46	02/26/24 19:55	1
Diesel Range Organics (Over C10-C28)	329		49.8		mg/Kg		02/26/24 09:46	02/26/24 19:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/26/24 09:46	02/26/24 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	30	S1-	70 - 130				02/26/24 09:46	02/26/24 19:55	1
o-Terphenyl	20	S1-	70 - 130				02/26/24 09:46	02/26/24 19:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	771		5.05		mg/Kg			02/26/24 10:42	1

Client Sample ID: B-7

Lab Sample ID: 890-6251-7

Date Collected: 02/22/24 15:15

Matrix: Solid

Date Received: 02/23/24 10:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 11:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 11:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 11:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/24 08:29	02/26/24 11:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 11:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/24 08:29	02/26/24 11:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				02/26/24 08:29	02/26/24 11:38	1
1,4-Difluorobenzene (Surr)	98		70 - 130				02/26/24 08:29	02/26/24 11:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/26/24 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/26/24 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1 F2	49.7		mg/Kg		02/26/24 09:46	02/26/24 16:39	1
Diesel Range Organics (Over C10-C28)	<49.7	U F1	49.7		mg/Kg		02/26/24 09:46	02/26/24 16:39	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-7

Date Collected: 02/22/24 15:15

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/26/24 09:46	02/26/24 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0.1	S1-	70 - 130				02/26/24 09:46	02/26/24 16:39	1
o-Terphenyl	0.4	S1-	70 - 130				02/26/24 09:46	02/26/24 16:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	542		4.98		mg/Kg			02/26/24 10:47	1

Client Sample ID: B-8

Date Collected: 02/22/24 15:20

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 18:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/26/24 08:29	02/26/24 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 18:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/26/24 08:29	02/26/24 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				02/26/24 08:29	02/26/24 18:18	1
1,4-Difluorobenzene (Surr)	107		70 - 130				02/26/24 08:29	02/26/24 18:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/26/24 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	130		49.8		mg/Kg			02/26/24 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/26/24 09:46	02/26/24 20:19	1
Diesel Range Organics (Over C10-C28)	130		49.8		mg/Kg		02/26/24 09:46	02/26/24 20:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/26/24 09:46	02/26/24 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	39	S1-	70 - 130				02/26/24 09:46	02/26/24 20:19	1
o-Terphenyl	30	S1-	70 - 130				02/26/24 09:46	02/26/24 20:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		5.03		mg/Kg			02/26/24 10:51	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-9

Lab Sample ID: 890-6251-9

Date Collected: 02/22/24 15:25

Matrix: Solid

Date Received: 02/23/24 10:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 18:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 18:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 18:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/26/24 08:29	02/26/24 18:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 18:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/26/24 08:29	02/26/24 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	02/26/24 08:29	02/26/24 18:39	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/26/24 08:29	02/26/24 18:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/26/24 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/26/24 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/26/24 09:46	02/26/24 20:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/26/24 09:46	02/26/24 20:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/26/24 09:46	02/26/24 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	3	S1-	70 - 130	02/26/24 09:46	02/26/24 20:44	1
o-Terphenyl	0.5	S1-	70 - 130	02/26/24 09:46	02/26/24 20:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	602		4.99		mg/Kg			02/26/24 10:56	1

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-6251-1	B-1	97	109
890-6251-2	B-2	110	116
890-6251-3	B-3	100	109
890-6251-4	B-4	94	118
890-6251-5	B-5	92	113
890-6251-6	B-6	92	116
890-6251-7	B-7	76	98
890-6251-7 MS	B-7	104	112
890-6251-7 MSD	B-7	97	120
890-6251-8	B-8	77	107
890-6251-9	B-9	80	105
LCS 880-73996/1-A	Lab Control Sample	106	124
LCSD 880-73996/2-A	Lab Control Sample Dup	97	125
MB 880-73996/5-A	Method Blank	68 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)
890-6251-1	B-1	2 S1-	0.3 S1-
890-6251-2	B-2	22 S1-	18 S1-
890-6251-3	B-3	36 S1-	30 S1-
890-6251-4	B-4	39 S1-	34 S1-
890-6251-5	B-5	42 S1-	39 S1-
890-6251-6	B-6	30 S1-	20 S1-
890-6251-7	B-7	0.1 S1-	0.4 S1-
890-6251-7 MS	B-7	2 S1-	0.4 S1-
890-6251-7 MSD	B-7	3 S1-	0.3 S1-
890-6251-8	B-8	39 S1-	30 S1-
890-6251-9	B-9	3 S1-	0.5 S1-
LCS 880-74001/2-A	Lab Control Sample	93	85
LCSD 880-74001/3-A	Lab Control Sample Dup	94	96
MB 880-74001/1-A	Method Blank	174 S1+	160 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73996/5-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73996

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/26/24 08:29	02/26/24 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 11:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/26/24 08:29	02/26/24 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	02/26/24 08:29	02/26/24 11:16	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/26/24 08:29	02/26/24 11:16	1

Lab Sample ID: LCS 880-73996/1-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1064		mg/Kg		106	70 - 130
Toluene	0.100	0.09270		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.08924		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.2223		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1072		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

Lab Sample ID: LCSD 880-73996/2-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73996

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09412		mg/Kg		94	70 - 130	12	35
Toluene	0.100	0.07787		mg/Kg		78	70 - 130	17	35
Ethylbenzene	0.100	0.08979		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1866		mg/Kg		93	70 - 130	17	35
o-Xylene	0.100	0.09016		mg/Kg		90	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	125		70 - 130

Lab Sample ID: 890-6251-7 MS

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: B-7

Prep Type: Total/NA

Prep Batch: 73996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.07492		mg/Kg		74	70 - 130
Toluene	<0.00201	U	0.101	0.07363		mg/Kg		73	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

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

Lab Sample ID: 890-6251-7 MS

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: B-7

Prep Type: Total/NA

Prep Batch: 73996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.101	0.07867		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1593		mg/Kg		79	70 - 130
o-Xylene	<0.00201	U	0.101	0.07769		mg/Kg		77	70 - 130

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

Lab Sample ID: 890-6251-7 MSD

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: B-7

Prep Type: Total/NA

Prep Batch: 73996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.08240		mg/Kg		82	70 - 130	10	35
Toluene	<0.00201	U	0.100	0.07727		mg/Kg		77	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.100	0.08016		mg/Kg		80	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1621		mg/Kg		81	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.07891		mg/Kg		79	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

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

Lab Sample ID: MB 880-74001/1-A

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 12:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 12:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 12:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	174	S1+	70 - 130	02/26/24 09:46	02/26/24 12:29	1
o-Terphenyl	160	S1+	70 - 130	02/26/24 09:46	02/26/24 12:29	1

Lab Sample ID: LCS 880-74001/2-A

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	908.2		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	746.4		mg/Kg		75	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

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

Lab Sample ID: LCS 880-74001/2-A

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74001

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: LCSD 880-74001/3-A

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74001

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	965.5		mg/Kg		97	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	793.2		mg/Kg		79	70 - 130	6	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	96		70 - 130								

Lab Sample ID: 890-6251-7 MS

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: B-7

Prep Type: Total/NA

Prep Batch: 74001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1 F2	998	<49.9	U F1	mg/Kg		2	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U F1	998	<49.9	U F1	mg/Kg		-0.3	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	2	S1-	70 - 130								
o-Terphenyl	0.4	S1-	70 - 130								

Lab Sample ID: 890-6251-7 MSD

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: B-7

Prep Type: Total/NA

Prep Batch: 74001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1 F2	998	57.10	F1 F2	mg/Kg		3	70 - 130	32	20
Diesel Range Organics (Over C10-C28)	<49.7	U F1	998	<49.9	U F1	mg/Kg		-0.4	70 - 130	3	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	3	S1-	70 - 130								
o-Terphenyl	0.3	S1-	70 - 130								

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73985/1-A
Matrix: Solid
Analysis Batch: 74002

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/26/24 09:42	1

Lab Sample ID: LCS 880-73985/2-A
Matrix: Solid
Analysis Batch: 74002

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.7		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-73985/3-A
Matrix: Solid
Analysis Batch: 74002

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	236.7		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

GC VOA

Analysis Batch: 73993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-1	B-1	Total/NA	Solid	8021B	73996
890-6251-2	B-2	Total/NA	Solid	8021B	73996
890-6251-3	B-3	Total/NA	Solid	8021B	73996
890-6251-4	B-4	Total/NA	Solid	8021B	73996
890-6251-5	B-5	Total/NA	Solid	8021B	73996
890-6251-6	B-6	Total/NA	Solid	8021B	73996
890-6251-7	B-7	Total/NA	Solid	8021B	73996
890-6251-8	B-8	Total/NA	Solid	8021B	73996
890-6251-9	B-9	Total/NA	Solid	8021B	73996
MB 880-73996/5-A	Method Blank	Total/NA	Solid	8021B	73996
LCS 880-73996/1-A	Lab Control Sample	Total/NA	Solid	8021B	73996
LCSD 880-73996/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73996
890-6251-7 MS	B-7	Total/NA	Solid	8021B	73996
890-6251-7 MSD	B-7	Total/NA	Solid	8021B	73996

Prep Batch: 73996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-1	B-1	Total/NA	Solid	5035	
890-6251-2	B-2	Total/NA	Solid	5035	
890-6251-3	B-3	Total/NA	Solid	5035	
890-6251-4	B-4	Total/NA	Solid	5035	
890-6251-5	B-5	Total/NA	Solid	5035	
890-6251-6	B-6	Total/NA	Solid	5035	
890-6251-7	B-7	Total/NA	Solid	5035	
890-6251-8	B-8	Total/NA	Solid	5035	
890-6251-9	B-9	Total/NA	Solid	5035	
MB 880-73996/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73996/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73996/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6251-7 MS	B-7	Total/NA	Solid	5035	
890-6251-7 MSD	B-7	Total/NA	Solid	5035	

Analysis Batch: 74096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-1	B-1	Total/NA	Solid	Total BTEX	
890-6251-2	B-2	Total/NA	Solid	Total BTEX	
890-6251-3	B-3	Total/NA	Solid	Total BTEX	
890-6251-4	B-4	Total/NA	Solid	Total BTEX	
890-6251-5	B-5	Total/NA	Solid	Total BTEX	
890-6251-6	B-6	Total/NA	Solid	Total BTEX	
890-6251-7	B-7	Total/NA	Solid	Total BTEX	
890-6251-8	B-8	Total/NA	Solid	Total BTEX	
890-6251-9	B-9	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 74001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-1	B-1	Total/NA	Solid	8015NM Prep	
890-6251-2	B-2	Total/NA	Solid	8015NM Prep	
890-6251-3	B-3	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

GC Semi VOA (Continued)

Prep Batch: 74001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-4	B-4	Total/NA	Solid	8015NM Prep	
890-6251-5	B-5	Total/NA	Solid	8015NM Prep	
890-6251-6	B-6	Total/NA	Solid	8015NM Prep	
890-6251-7	B-7	Total/NA	Solid	8015NM Prep	
890-6251-8	B-8	Total/NA	Solid	8015NM Prep	
890-6251-9	B-9	Total/NA	Solid	8015NM Prep	
MB 880-74001/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74001/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74001/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6251-7 MS	B-7	Total/NA	Solid	8015NM Prep	
890-6251-7 MSD	B-7	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-1	B-1	Total/NA	Solid	8015B NM	74001
890-6251-2	B-2	Total/NA	Solid	8015B NM	74001
890-6251-3	B-3	Total/NA	Solid	8015B NM	74001
890-6251-4	B-4	Total/NA	Solid	8015B NM	74001
890-6251-5	B-5	Total/NA	Solid	8015B NM	74001
890-6251-6	B-6	Total/NA	Solid	8015B NM	74001
890-6251-7	B-7	Total/NA	Solid	8015B NM	74001
890-6251-8	B-8	Total/NA	Solid	8015B NM	74001
890-6251-9	B-9	Total/NA	Solid	8015B NM	74001
MB 880-74001/1-A	Method Blank	Total/NA	Solid	8015B NM	74001
LCS 880-74001/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74001
LCSD 880-74001/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74001
890-6251-7 MS	B-7	Total/NA	Solid	8015B NM	74001
890-6251-7 MSD	B-7	Total/NA	Solid	8015B NM	74001

Analysis Batch: 74181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-1	B-1	Total/NA	Solid	8015 NM	
890-6251-2	B-2	Total/NA	Solid	8015 NM	
890-6251-3	B-3	Total/NA	Solid	8015 NM	
890-6251-4	B-4	Total/NA	Solid	8015 NM	
890-6251-5	B-5	Total/NA	Solid	8015 NM	
890-6251-6	B-6	Total/NA	Solid	8015 NM	
890-6251-7	B-7	Total/NA	Solid	8015 NM	
890-6251-8	B-8	Total/NA	Solid	8015 NM	
890-6251-9	B-9	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 73985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-1	B-1	Soluble	Solid	DI Leach	
890-6251-2	B-2	Soluble	Solid	DI Leach	
890-6251-3	B-3	Soluble	Solid	DI Leach	
890-6251-4	B-4	Soluble	Solid	DI Leach	
890-6251-5	B-5	Soluble	Solid	DI Leach	
890-6251-6	B-6	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

HPLC/IC (Continued)

Leach Batch: 73985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-7	B-7	Soluble	Solid	DI Leach	
890-6251-8	B-8	Soluble	Solid	DI Leach	
890-6251-9	B-9	Soluble	Solid	DI Leach	
MB 880-73985/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73985/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73985/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 74002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6251-1	B-1	Soluble	Solid	300.0	73985
890-6251-2	B-2	Soluble	Solid	300.0	73985
890-6251-3	B-3	Soluble	Solid	300.0	73985
890-6251-4	B-4	Soluble	Solid	300.0	73985
890-6251-5	B-5	Soluble	Solid	300.0	73985
890-6251-6	B-6	Soluble	Solid	300.0	73985
890-6251-7	B-7	Soluble	Solid	300.0	73985
890-6251-8	B-8	Soluble	Solid	300.0	73985
890-6251-9	B-9	Soluble	Solid	300.0	73985
MB 880-73985/1-A	Method Blank	Soluble	Solid	300.0	73985
LCS 880-73985/2-A	Lab Control Sample	Soluble	Solid	300.0	73985
LCSD 880-73985/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73985

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-1

Date Collected: 02/22/24 14:45

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	73993	02/26/24 11:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74096	02/26/24 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			74181	02/26/24 17:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 17:53	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		10	0 mL	1.0 mL	74002	02/26/24 10:10	CH	EET MID

Client Sample ID: B-2

Date Collected: 02/22/24 14:50

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	73993	02/26/24 12:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74096	02/26/24 12:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			74181	02/26/24 18:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 18:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 10:14	CH	EET MID

Client Sample ID: B-3

Date Collected: 02/22/24 14:55

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	73993	02/26/24 12:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74096	02/26/24 12:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			74181	02/26/24 18:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 18:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 10:19	CH	EET MID

Client Sample ID: B-4

Date Collected: 02/22/24 15:00

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	73993	02/26/24 13:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74096	02/26/24 13:02	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-4

Date Collected: 02/22/24 15:00

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-4

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			74181	02/26/24 19:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 19:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	74002	02/26/24 10:23	CH	EET MID

Client Sample ID: B-5

Date Collected: 02/22/24 15:05

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	73993	02/26/24 13:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74096	02/26/24 13:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			74181	02/26/24 19:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 19:31	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	74002	02/26/24 10:38	CH	EET MID

Client Sample ID: B-6

Date Collected: 02/22/24 15:10

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	73993	02/26/24 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74096	02/26/24 13:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			74181	02/26/24 19:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 19:55	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 10:42	CH	EET MID

Client Sample ID: B-7

Date Collected: 02/22/24 15:15

Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 11:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74096	02/26/24 11:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			74181	02/26/24 16:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 16:39	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Client Sample ID: B-7
Date Collected: 02/22/24 15:15
Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 10:47	CH	EET MID

Client Sample ID: B-8
Date Collected: 02/22/24 15:20
Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 18:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74096	02/26/24 18:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			74181	02/26/24 20:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 20:19	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 10:51	CH	EET MID

Client Sample ID: B-9
Date Collected: 02/22/24 15:25
Date Received: 02/23/24 10:51

Lab Sample ID: 890-6251-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 18:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74096	02/26/24 18:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			74181	02/26/24 20:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 20:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 10:56	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: SCB 23-14

Job ID: 890-6251-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6251-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6251-1	B-1	Solid	02/22/24 14:45	02/23/24 10:51
890-6251-2	B-2	Solid	02/22/24 14:50	02/23/24 10:51
890-6251-3	B-3	Solid	02/22/24 14:55	02/23/24 10:51
890-6251-4	B-4	Solid	02/22/24 15:00	02/23/24 10:51
890-6251-5	B-5	Solid	02/22/24 15:05	02/23/24 10:51
890-6251-6	B-6	Solid	02/22/24 15:10	02/23/24 10:51
890-6251-7	B-7	Solid	02/22/24 15:15	02/23/24 10:51
890-6251-8	B-8	Solid	02/22/24 15:20	02/23/24 10:51
890-6251-9	B-9	Solid	02/22/24 15:25	02/23/24 10:51

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Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record



Environment Testing

Client Information		Samp. Health Boyd		Lab PM: Bulles, John		Carrier Tracking No(s):		COC No: 880-8032-1136.14	
Client Contact: Mr. Morgan Jordan		Phone: 575-390-4618		E-Mail: John.Bulles@et.eurolinsus.com		State of Origin: N/M		Page 1 of 1	
Company: ARCADIS US Inc		Address: 1004 North Big Spring Suite 300		Due Date Requested:		Analysis Requested		Job #:	
City: Midland		TAT Requested (days): 24 hours TAT		Compliance Project: ☐ Yes ☐ No		880-6251 Chain of Custody		Preservation Codes:	
State: TX, 79701		PO #:		Purchase Order Requested		Barcode		A - HCL M - Hexane N - None O - AsNaO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
Phone: 281-644-9437(Tel)		Project #:		SSOW#:		Field Filtered Sample (Yes or No)		Total Number of Contain	
Email: dmorganjordan@arcadis-us.com		Project Name: SCB 23-14		Sample Identification		300_ORGFM_28D, 8015MOD_NM, 8021B		Special Instructions/Note:	
Site: Eddy County, NM		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (W=Water, S=Solid, O=Overstool, BT=Brain, AA=)	
B-1 2'		2/22/24		1445		C		Solid	
B-2 2'				1450					
B-3 2'				1455					
B-4 2'				1500					
B-5 2'				1505					
B-6 2'				1510					
B-7 2'				1515					
B-8 3'				1520					
B-9 2'				1525					
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:		Method of Shipment:					
Empty Kit Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6251-1

Login Number: 6251

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6251-1

Login Number: 6251

List Number: 2

Creator: Wheeler, Jazmine

List Source: Eurofins Midland

List Creation: 02/26/24 08:16 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sarah Johnson
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 2/27/2024 3:47:04 PM

JOB DESCRIPTION

SCB 23-14

JOB NUMBER

890-6252-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
2/27/2024 3:47:04 PM

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

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Laboratory Job ID: 890-6252-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

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Case Narrative

Client: Arcadis U.S., Inc.
Project: SCB 23-14

Job ID: 890-6252-1

Job ID: 890-6252-1

Eurofins Carlsbad

Job Narrative
890-6252-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/23/2024 10:52 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-10 (890-6252-1), B-11 (890-6252-2), B-12 (890-6252-3), B-13 (890-6252-4), B-14 (890-6252-5), B-15 (890-6252-6) and SW-1 (890-6252-7).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73997 and analytical batch 880-73994 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: (LCSD 880-73997/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: B-12 (890-6252-3), B-13 (890-6252-4), SW-1 (890-6252-7), (890-6252-A-2-C MS) and (890-6252-A-2-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-10 (890-6252-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: B-10 (890-6252-1). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74001 and analytical batch 880-74025 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-12 (890-6252-3), B-13 (890-6252-4), B-14 (890-6252-5), B-15 (890-6252-6), SW-1 (890-6252-7), (890-6251-A-7-E), (890-6251-A-7-F MS) and (890-6251-A-7-G MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-73985 and analytical batch 880-74002 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.

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Case Narrative

Client: Arcadis U.S., Inc.
Project: SCB 23-14

Job ID: 890-6252-1

Job ID: 890-6252-1 (Continued) **Eurofins Carlsbad**

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

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Client Sample ID: B-10

Lab Sample ID: 890-6252-1

Date Collected: 02/23/24 08:10

Matrix: Solid

Date Received: 02/23/24 10:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		02/26/24 08:31	02/26/24 17:02	20
Toluene	<0.0398	U	0.0398		mg/Kg		02/26/24 08:31	02/26/24 17:02	20
Ethylbenzene	0.0988		0.0398		mg/Kg		02/26/24 08:31	02/26/24 17:02	20
m-Xylene & p-Xylene	0.273		0.0797		mg/Kg		02/26/24 08:31	02/26/24 17:02	20
o-Xylene	0.312		0.0398		mg/Kg		02/26/24 08:31	02/26/24 17:02	20
Xylenes, Total	0.585		0.0797		mg/Kg		02/26/24 08:31	02/26/24 17:02	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130	02/26/24 08:31	02/26/24 17:02	20
1,4-Difluorobenzene (Surr)	96		70 - 130	02/26/24 08:31	02/26/24 17:02	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.684		0.0797		mg/Kg			02/26/24 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	967		49.6		mg/Kg			02/26/24 21:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		02/26/24 09:46	02/26/24 21:08	1
Diesel Range Organics (Over C10-C28)	967		49.6		mg/Kg		02/26/24 09:46	02/26/24 21:08	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/26/24 09:46	02/26/24 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	02/26/24 09:46	02/26/24 21:08	1
o-Terphenyl	73		70 - 130	02/26/24 09:46	02/26/24 21:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	215	F1	4.98		mg/Kg			02/26/24 11:01	1

Client Sample ID: B-11

Lab Sample ID: 890-6252-2

Date Collected: 02/23/24 08:15

Matrix: Solid

Date Received: 02/23/24 10:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:31	02/26/24 14:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:31	02/26/24 14:56	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		02/26/24 08:31	02/26/24 14:56	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		02/26/24 08:31	02/26/24 14:56	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		02/26/24 08:31	02/26/24 14:56	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		02/26/24 08:31	02/26/24 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/26/24 08:31	02/26/24 14:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/26/24 08:31	02/26/24 14:56	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Client Sample ID: B-11

Lab Sample ID: 890-6252-2

Date Collected: 02/23/24 08:15

Matrix: Solid

Date Received: 02/23/24 10:52

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/26/24 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/26/24 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		02/26/24 09:46	02/26/24 21:57	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/26/24 09:46	02/26/24 21:57	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/26/24 09:46	02/26/24 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/26/24 09:46	02/26/24 21:57	1
o-Terphenyl	77		70 - 130				02/26/24 09:46	02/26/24 21:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		5.02		mg/Kg			02/26/24 11:15	1

Client Sample ID: B-12

Lab Sample ID: 890-6252-3

Date Collected: 02/23/24 08:20

Matrix: Solid

Date Received: 02/23/24 10:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/26/24 08:31	02/26/24 15:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/26/24 08:31	02/26/24 15:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/26/24 08:31	02/26/24 15:17	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/26/24 08:31	02/26/24 15:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/26/24 08:31	02/26/24 15:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/26/24 08:31	02/26/24 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				02/26/24 08:31	02/26/24 15:17	1
1,4-Difluorobenzene (Surr)	97		70 - 130				02/26/24 08:31	02/26/24 15:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/26/24 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	114		50.4		mg/Kg			02/26/24 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/26/24 09:46	02/26/24 22:21	1
Diesel Range Organics (Over C10-C28)	114		50.4		mg/Kg		02/26/24 09:46	02/26/24 22:21	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Client Sample ID: B-12

Lab Sample ID: 890-6252-3

Date Collected: 02/23/24 08:20

Matrix: Solid

Date Received: 02/23/24 10:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/26/24 09:46	02/26/24 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	42	S1-	70 - 130				02/26/24 09:46	02/26/24 22:21	1
o-Terphenyl	33	S1-	70 - 130				02/26/24 09:46	02/26/24 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	666		5.01		mg/Kg			02/26/24 11:19	1

Client Sample ID: B-13

Lab Sample ID: 890-6252-4

Date Collected: 02/23/24 08:25

Matrix: Solid

Date Received: 02/23/24 10:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:31	02/26/24 15:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:31	02/26/24 15:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:31	02/26/24 15:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/26/24 08:31	02/26/24 15:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:31	02/26/24 15:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/26/24 08:31	02/26/24 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				02/26/24 08:31	02/26/24 15:38	1
1,4-Difluorobenzene (Surr)	103		70 - 130				02/26/24 08:31	02/26/24 15:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/26/24 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	412		50.5		mg/Kg			02/26/24 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		02/26/24 09:46	02/26/24 22:46	1
Diesel Range Organics (Over C10-C28)	412		50.5		mg/Kg		02/26/24 09:46	02/26/24 22:46	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/26/24 09:46	02/26/24 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	47	S1-	70 - 130				02/26/24 09:46	02/26/24 22:46	1
o-Terphenyl	39	S1-	70 - 130				02/26/24 09:46	02/26/24 22:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	773		25.0		mg/Kg			02/26/24 11:33	5

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Client Sample ID: B-14

Lab Sample ID: 890-6252-5

Date Collected: 02/23/24 08:30

Matrix: Solid

Date Received: 02/23/24 10:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:31	02/26/24 15:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:31	02/26/24 15:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:31	02/26/24 15:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/26/24 08:31	02/26/24 15:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:31	02/26/24 15:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/26/24 08:31	02/26/24 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	02/26/24 08:31	02/26/24 15:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/26/24 08:31	02/26/24 15:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/26/24 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/26/24 23:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 23:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 23:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	39	S1-	70 - 130	02/26/24 09:46	02/26/24 23:10	1
o-Terphenyl	28	S1-	70 - 130	02/26/24 09:46	02/26/24 23:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	373		4.99		mg/Kg			02/26/24 11:38	1

Client Sample ID: B-15

Lab Sample ID: 890-6252-6

Date Collected: 02/23/24 08:35

Matrix: Solid

Date Received: 02/23/24 10:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/26/24 08:31	02/26/24 16:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/26/24 08:31	02/26/24 16:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/26/24 08:31	02/26/24 16:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/26/24 08:31	02/26/24 16:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/26/24 08:31	02/26/24 16:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/26/24 08:31	02/26/24 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	02/26/24 08:31	02/26/24 16:20	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/26/24 08:31	02/26/24 16:20	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Client Sample ID: B-15

Lab Sample ID: 890-6252-6

Date Collected: 02/23/24 08:35

Matrix: Solid

Date Received: 02/23/24 10:52

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/26/24 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/26/24 23:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 23:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 23:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 23:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	39	S1-	70 - 130				02/26/24 09:46	02/26/24 23:35	1
o-Terphenyl	30	S1-	70 - 130				02/26/24 09:46	02/26/24 23:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	439		5.05		mg/Kg			02/26/24 11:42	1

Client Sample ID: SW-1

Lab Sample ID: 890-6252-7

Date Collected: 02/23/24 08:40

Matrix: Solid

Date Received: 02/23/24 10:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:31	02/26/24 16:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:31	02/26/24 16:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:31	02/26/24 16:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/24 08:31	02/26/24 16:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:31	02/26/24 16:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/24 08:31	02/26/24 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				02/26/24 08:31	02/26/24 16:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130				02/26/24 08:31	02/26/24 16:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/26/24 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	695		49.9		mg/Kg			02/26/24 23:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/26/24 09:46	02/26/24 23:59	1
Diesel Range Organics (Over C10-C28)	695		49.9		mg/Kg		02/26/24 09:46	02/26/24 23:59	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Client Sample ID: SW-1

Lab Sample ID: 890-6252-7

Date Collected: 02/23/24 08:40

Matrix: Solid

Date Received: 02/23/24 10:52

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg	-	02/26/24 09:46	02/26/24 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				02/26/24 09:46	02/26/24 23:59	1
o-Terphenyl	66	S1-	70 - 130				02/26/24 09:46	02/26/24 23:59	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	784		24.9		mg/Kg	-		02/26/24 11:47	5

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-6252-1	B-10	163 S1+	96
890-6252-2	B-11	111	99
890-6252-2 MS	B-11	154 S1+	102
890-6252-2 MSD	B-11	160 S1+	103
890-6252-3	B-12	132 S1+	97
890-6252-4	B-13	143 S1+	103
890-6252-5	B-14	121	101
890-6252-6	B-15	121	103
890-6252-7	SW-1	136 S1+	102
LCS 880-73997/1-A	Lab Control Sample	118	99
LCSD 880-73997/2-A	Lab Control Sample Dup	135 S1+	101
MB 880-73997/5-A	Method Blank	125	110

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	OTPH1
		(70-130)	(70-130)
890-6252-1	B-10	86	73
890-6252-2	B-11	92	77
890-6252-3	B-12	42 S1-	33 S1-
890-6252-4	B-13	47 S1-	39 S1-
890-6252-5	B-14	39 S1-	28 S1-
890-6252-6	B-15	39 S1-	30 S1-
890-6252-7	SW-1	77	66 S1-
LCS 880-74001/2-A	Lab Control Sample	93	85
LCSD 880-74001/3-A	Lab Control Sample Dup	94	96
MB 880-74001/1-A	Method Blank	174 S1+	160 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73997/5-A

Matrix: Solid

Analysis Batch: 73994

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:31	02/26/24 14:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:31	02/26/24 14:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:31	02/26/24 14:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/26/24 08:31	02/26/24 14:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:31	02/26/24 14:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/26/24 08:31	02/26/24 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	02/26/24 08:31	02/26/24 14:28	1
1,4-Difluorobenzene (Surr)	110		70 - 130	02/26/24 08:31	02/26/24 14:28	1

Lab Sample ID: LCS 880-73997/1-A

Matrix: Solid

Analysis Batch: 73994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1132		mg/Kg		113	70 - 130
Toluene	0.100	0.1070		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1069		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.1889		mg/Kg		94	70 - 130
o-Xylene	0.100	0.1042		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-73997/2-A

Matrix: Solid

Analysis Batch: 73994

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1119		mg/Kg		112	70 - 130	1	35
Toluene	0.100	0.1024		mg/Kg		102	70 - 130	4	35
Ethylbenzene	0.100	0.1185		mg/Kg		118	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2601		mg/Kg		130	70 - 130	32	35
o-Xylene	0.100	0.1194		mg/Kg		119	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-6252-2 MS

Matrix: Solid

Analysis Batch: 73994

Client Sample ID: B-11

Prep Type: Total/NA

Prep Batch: 73997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.1097		mg/Kg		109	70 - 130
Toluene	<0.00201	U	0.101	0.09569		mg/Kg		95	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

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

Lab Sample ID: 890-6252-2 MS

Matrix: Solid

Analysis Batch: 73994

Client Sample ID: B-11

Prep Type: Total/NA

Prep Batch: 73997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.101	0.1325	F1	mg/Kg		131	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.2706	F1	mg/Kg		134	70 - 130
o-Xylene	<0.00201	U F1	0.101	0.1258		mg/Kg		125	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-6252-2 MSD

Matrix: Solid

Analysis Batch: 73994

Client Sample ID: B-11

Prep Type: Total/NA

Prep Batch: 73997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.1186		mg/Kg		119	70 - 130	8	35
Toluene	<0.00201	U	0.100	0.1042		mg/Kg		104	70 - 130	8	35
Ethylbenzene	<0.00201	U F1	0.100	0.1478	F1	mg/Kg		148	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.2932	F1	mg/Kg		147	70 - 130	8	35
o-Xylene	<0.00201	U F1	0.100	0.1353	F1	mg/Kg		135	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-74001/1-A

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 12:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 12:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/24 09:46	02/26/24 12:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	174	S1+	70 - 130	02/26/24 09:46	02/26/24 12:29	1
o-Terphenyl	160	S1+	70 - 130	02/26/24 09:46	02/26/24 12:29	1

Lab Sample ID: LCS 880-74001/2-A

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	908.2		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	746.4		mg/Kg		75	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

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

Lab Sample ID: LCS 880-74001/2-A

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74001

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: LCSD 880-74001/3-A

Matrix: Solid

Analysis Batch: 74025

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74001

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	965.5		mg/Kg		97	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	793.2		mg/Kg		79	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	96		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73985/1-A

Matrix: Solid

Analysis Batch: 74002

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/26/24 09:42	1

Lab Sample ID: LCS 880-73985/2-A

Matrix: Solid

Analysis Batch: 74002

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.7		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-73985/3-A

Matrix: Solid

Analysis Batch: 74002

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	236.7		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-6252-1 MS

Matrix: Solid

Analysis Batch: 74002

Client Sample ID: B-10

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	215	F1	249	492.3	F1	mg/Kg		111	90 - 110

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-6252-1 MSD							Client Sample ID: B-10					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 74002												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	215	F1	249	494.1	F1	mg/Kg	-	112	90 - 110	0	20	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

GC VOA

Analysis Batch: 73994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6252-1	B-10	Total/NA	Solid	8021B	73997
890-6252-2	B-11	Total/NA	Solid	8021B	73997
890-6252-3	B-12	Total/NA	Solid	8021B	73997
890-6252-4	B-13	Total/NA	Solid	8021B	73997
890-6252-5	B-14	Total/NA	Solid	8021B	73997
890-6252-6	B-15	Total/NA	Solid	8021B	73997
890-6252-7	SW-1	Total/NA	Solid	8021B	73997
MB 880-73997/5-A	Method Blank	Total/NA	Solid	8021B	73997
LCS 880-73997/1-A	Lab Control Sample	Total/NA	Solid	8021B	73997
LCSD 880-73997/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73997
890-6252-2 MS	B-11	Total/NA	Solid	8021B	73997
890-6252-2 MSD	B-11	Total/NA	Solid	8021B	73997

Prep Batch: 73997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6252-1	B-10	Total/NA	Solid	5035	
890-6252-2	B-11	Total/NA	Solid	5035	
890-6252-3	B-12	Total/NA	Solid	5035	
890-6252-4	B-13	Total/NA	Solid	5035	
890-6252-5	B-14	Total/NA	Solid	5035	
890-6252-6	B-15	Total/NA	Solid	5035	
890-6252-7	SW-1	Total/NA	Solid	5035	
MB 880-73997/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73997/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73997/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6252-2 MS	B-11	Total/NA	Solid	5035	
890-6252-2 MSD	B-11	Total/NA	Solid	5035	

Analysis Batch: 74098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6252-1	B-10	Total/NA	Solid	Total BTEX	
890-6252-2	B-11	Total/NA	Solid	Total BTEX	
890-6252-3	B-12	Total/NA	Solid	Total BTEX	
890-6252-4	B-13	Total/NA	Solid	Total BTEX	
890-6252-5	B-14	Total/NA	Solid	Total BTEX	
890-6252-6	B-15	Total/NA	Solid	Total BTEX	
890-6252-7	SW-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 74001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6252-1	B-10	Total/NA	Solid	8015NM Prep	
890-6252-2	B-11	Total/NA	Solid	8015NM Prep	
890-6252-3	B-12	Total/NA	Solid	8015NM Prep	
890-6252-4	B-13	Total/NA	Solid	8015NM Prep	
890-6252-5	B-14	Total/NA	Solid	8015NM Prep	
890-6252-6	B-15	Total/NA	Solid	8015NM Prep	
890-6252-7	SW-1	Total/NA	Solid	8015NM Prep	
MB 880-74001/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74001/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

GC Semi VOA (Continued)

Prep Batch: 74001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-74001/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6252-1	B-10	Total/NA	Solid	8015B NM	74001
890-6252-2	B-11	Total/NA	Solid	8015B NM	74001
890-6252-3	B-12	Total/NA	Solid	8015B NM	74001
890-6252-4	B-13	Total/NA	Solid	8015B NM	74001
890-6252-5	B-14	Total/NA	Solid	8015B NM	74001
890-6252-6	B-15	Total/NA	Solid	8015B NM	74001
890-6252-7	SW-1	Total/NA	Solid	8015B NM	74001
MB 880-74001/1-A	Method Blank	Total/NA	Solid	8015B NM	74001
LCS 880-74001/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74001
LCSD 880-74001/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74001

Analysis Batch: 74182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6252-1	B-10	Total/NA	Solid	8015 NM	
890-6252-2	B-11	Total/NA	Solid	8015 NM	
890-6252-3	B-12	Total/NA	Solid	8015 NM	
890-6252-4	B-13	Total/NA	Solid	8015 NM	
890-6252-5	B-14	Total/NA	Solid	8015 NM	
890-6252-6	B-15	Total/NA	Solid	8015 NM	
890-6252-7	SW-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 73985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6252-1	B-10	Soluble	Solid	DI Leach	
890-6252-2	B-11	Soluble	Solid	DI Leach	
890-6252-3	B-12	Soluble	Solid	DI Leach	
890-6252-4	B-13	Soluble	Solid	DI Leach	
890-6252-5	B-14	Soluble	Solid	DI Leach	
890-6252-6	B-15	Soluble	Solid	DI Leach	
890-6252-7	SW-1	Soluble	Solid	DI Leach	
MB 880-73985/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73985/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73985/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6252-1 MS	B-10	Soluble	Solid	DI Leach	
890-6252-1 MSD	B-10	Soluble	Solid	DI Leach	

Analysis Batch: 74002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6252-1	B-10	Soluble	Solid	300.0	73985
890-6252-2	B-11	Soluble	Solid	300.0	73985
890-6252-3	B-12	Soluble	Solid	300.0	73985
890-6252-4	B-13	Soluble	Solid	300.0	73985
890-6252-5	B-14	Soluble	Solid	300.0	73985
890-6252-6	B-15	Soluble	Solid	300.0	73985
890-6252-7	SW-1	Soluble	Solid	300.0	73985

Eurofins Carlsbad

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

HPLC/IC (Continued)

Analysis Batch: 74002 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73985/1-A	Method Blank	Soluble	Solid	300.0	73985
LCS 880-73985/2-A	Lab Control Sample	Soluble	Solid	300.0	73985
LCSD 880-73985/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73985
890-6252-1 MS	B-10	Soluble	Solid	300.0	73985
890-6252-1 MSD	B-10	Soluble	Solid	300.0	73985

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Client Sample ID: B-10

Date Collected: 02/23/24 08:10

Date Received: 02/23/24 10:52

Lab Sample ID: 890-6252-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73997	02/26/24 08:31	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	73994	02/26/24 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74098	02/26/24 17:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			74182	02/26/24 21:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 21:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 11:01	CH	EET MID

Client Sample ID: B-11

Date Collected: 02/23/24 08:15

Date Received: 02/23/24 10:52

Lab Sample ID: 890-6252-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73997	02/26/24 08:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73994	02/26/24 14:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74098	02/26/24 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			74182	02/26/24 21:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 21:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 11:15	CH	EET MID

Client Sample ID: B-12

Date Collected: 02/23/24 08:20

Date Received: 02/23/24 10:52

Lab Sample ID: 890-6252-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73997	02/26/24 08:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73994	02/26/24 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74098	02/26/24 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			74182	02/26/24 22:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 22:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 11:19	CH	EET MID

Client Sample ID: B-13

Date Collected: 02/23/24 08:25

Date Received: 02/23/24 10:52

Lab Sample ID: 890-6252-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73997	02/26/24 08:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73994	02/26/24 15:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74098	02/26/24 15:38	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Client Sample ID: B-13
Date Collected: 02/23/24 08:25
Date Received: 02/23/24 10:52

Lab Sample ID: 890-6252-4
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			74182	02/26/24 22:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 22:46	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	74002	02/26/24 11:33	CH	EET MID

Client Sample ID: B-14
Date Collected: 02/23/24 08:30
Date Received: 02/23/24 10:52

Lab Sample ID: 890-6252-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73997	02/26/24 08:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73994	02/26/24 15:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74098	02/26/24 15:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			74182	02/26/24 23:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 23:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 11:38	CH	EET MID

Client Sample ID: B-15
Date Collected: 02/23/24 08:35
Date Received: 02/23/24 10:52

Lab Sample ID: 890-6252-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73997	02/26/24 08:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73994	02/26/24 16:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74098	02/26/24 16:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			74182	02/26/24 23:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 23:35	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	74002	02/26/24 11:42	CH	EET MID

Client Sample ID: SW-1
Date Collected: 02/23/24 08:40
Date Received: 02/23/24 10:52

Lab Sample ID: 890-6252-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73997	02/26/24 08:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73994	02/26/24 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74098	02/26/24 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			74182	02/26/24 23:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74001	02/26/24 09:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74025	02/26/24 23:59	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Client Sample ID: SW-1

Date Collected: 02/23/24 08:40

Date Received: 02/23/24 10:52

Lab Sample ID: 890-6252-7

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	73985	02/26/24 07:45	SA	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	74002	02/26/24 11:47	CH	EET MID

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

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Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6252-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6252-1	B-10	Solid	02/23/24 08:10	02/23/24 10:52
890-6252-2	B-11	Solid	02/23/24 08:15	02/23/24 10:52
890-6252-3	B-12	Solid	02/23/24 08:20	02/23/24 10:52
890-6252-4	B-13	Solid	02/23/24 08:25	02/23/24 10:52
890-6252-5	B-14	Solid	02/23/24 08:30	02/23/24 10:52
890-6252-6	B-15	Solid	02/23/24 08:35	02/23/24 10:52
890-6252-7	SW-1	Solid	02/23/24 08:40	02/23/24 10:52

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Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record



Environment Testing

Client Information		Sampler:	Heath Boyd		Lab PM:	Bules, John		Carrier Tracking No(s):	880-8032-1136.14		COC No:	880-8032-1136.14	
Client Contact:		Phone:	575-390-4618		E-Mail:	John.Bules@eurofins.com		State of Origin:	NM		Page:	Page 4 of 14	
Company:		ARCADIS US Inc		PWSID:									
Address:		1004 North Big Spring Suite 300		Due Date Requested:									
City:		Midland		TAT Requested (days):	24 hour								
State Zip:		TX, 79701		Compliance Project:	A Yes A No								
Phone:		281-644-9437 (Tel)		PO #:									
Email:		douglas.jordan@arcadis.com		Purchase Order Requested	WO #:								
Project Name:		SCB 23-14		Project #:	88082020		30210275						
Site:		Eddy County, NM		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Matrix (Weigher, Sealed, Overweight, Burette, A-M)	Field Filtered Sample (Yes or No)						
							MS/MSD (Yes No)						
							300_ORGFM_28D, 8015MOD_NM, 8021B						
							Total Number of Cont						
							Special Instructions/Note:						
							Preservation Codes:						
							A-HCL, B-NaOH, C-Zn Acetate, D-Nitric Acid, E-NaHSO4, F-MeOH, G-Archer, H-Ascorbic Acid, I-Iss, J-DI Water, K-EDTA, L-EDA, Other:						
							M-Hexane, N-None, O-AsNaO2, P-Na2O4S, Q-Na2SO3, R-Na2SO3, S-H2SO4, T-TSP Dodecanhydrate, U-Acetone, V-MCAA, W-pH 4.5, Y-Tizma, Z-other (specify)						
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)									
Deliverable Requested: I, II, III, IV, Other (specify)		Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months											
Empty Kit Relinquished by:		Date:	Time:										
Relinquished by:		Date/Time:	2/23 10:22		Company:	ARCADIS		Received by:	alder		Date/Time:	10:52 2/23	
Relinquished by:		Date/Time:			Company:			Received by:			Date/Time:		
Custody Seal Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:									
A Yes A No				5.0 4.8 -0.7									

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6252-1

Login Number: 6252

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6252-1

Login Number: 6252

List Number: 2

Creator: Wheeler, Jazmine

List Source: Eurofins Midland

List Creation: 02/26/24 08:15 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 3/4/2024 4:23:44 PM

JOB DESCRIPTION

SCB 23 - 14
30210275

JOB NUMBER

890-6286-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
3/4/2024 4:23:44 PM

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

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Laboratory Job ID: 890-6286-1
SDG: 30210275

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

Qualifiers

GC VOA

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

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: SCB 23 - 14

Job ID: 890-6286-1

Job ID: 890-6286-1

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Job Narrative
890-6286-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/29/2024 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B - 24 2' (890-6286-1), B - 25 2' (890-6286-2) and B - 27 2' (890-6286-3).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74522 and analytical batch 880-74546 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 880-74546 recovered under the lower control limit for Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The method blank for preparation batch 880-74521 and analytical batch 880-74546 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74494 and analytical batch 880-74445 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-74494/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-74494 and analytical batch 880-74445 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-74445 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-74445/47).

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

HPLC/IC

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

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Case Narrative

Client: Arcadis U.S., Inc.
Project: SCB 23 - 14

Job ID: 890-6286-1

Job ID: 890-6286-1 (Continued) Eurofins Carlsbad

General Chemistry

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

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

Client Sample ID: B - 24 2'
Date Collected: 02/28/24 09:40
Date Received: 02/29/24 10:40

Lab Sample ID: 890-6286-1
Matrix: Solid
Percent Solids: 94.6

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00211	U F2 F1	0.00211		mg/Kg	☼	03/02/24 11:14	03/04/24 00:24	1
Toluene	<0.00211	U F1	0.00211		mg/Kg	☼	03/02/24 11:14	03/04/24 00:24	1
Ethylbenzene	<0.00211	U F2 F1	0.00211		mg/Kg	☼	03/02/24 11:14	03/04/24 00:24	1
m-Xylene & p-Xylene	<0.00421	U F2 F1	0.00421		mg/Kg	☼	03/02/24 11:14	03/04/24 00:24	1
o-Xylene	<0.00211	U F1	0.00211		mg/Kg	☼	03/02/24 11:14	03/04/24 00:24	1
Xylenes, Total	<0.00421	U F1	0.00421		mg/Kg	☼	03/02/24 11:14	03/04/24 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				03/02/24 11:14	03/04/24 00:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/02/24 11:14	03/04/24 00:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.0		52.6		mg/Kg	-		03/01/24 20:22	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	<52.6	U	52.6		mg/Kg	☼	03/01/24 14:04	03/01/24 20:22	1
Diesel Range Organics (Over C10-C28)	63.0		52.6		mg/Kg	☼	03/01/24 14:04	03/01/24 20:22	1
Oil Range Organics (Over C28-C36)	<52.6	U	52.6		mg/Kg	☼	03/01/24 14:04	03/01/24 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				03/01/24 14:04	03/01/24 20:22	1
o-Terphenyl	81		70 - 130				03/01/24 14:04	03/01/24 20:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	977		25.0		mg/Kg	-		03/01/24 15:33	5

Client Sample ID: B - 25 2'
Date Collected: 02/28/24 09:45
Date Received: 02/29/24 10:40

Lab Sample ID: 890-6286-2
Matrix: Solid
Percent Solids: 93.2

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00215	U	0.00215		mg/Kg	☼	03/02/24 11:14	03/04/24 00:44	1
Toluene	<0.00215	U	0.00215		mg/Kg	☼	03/02/24 11:14	03/04/24 00:44	1
Ethylbenzene	<0.00215	U	0.00215		mg/Kg	☼	03/02/24 11:14	03/04/24 00:44	1
m-Xylene & p-Xylene	<0.00431	U	0.00431		mg/Kg	☼	03/02/24 11:14	03/04/24 00:44	1
o-Xylene	<0.00215	U	0.00215		mg/Kg	☼	03/02/24 11:14	03/04/24 00:44	1
Xylenes, Total	<0.00431	U	0.00431		mg/Kg	☼	03/02/24 11:14	03/04/24 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				03/02/24 11:14	03/04/24 00:44	1
1,4-Difluorobenzene (Surr)	73		70 - 130				03/02/24 11:14	03/04/24 00:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.5		54.2		mg/Kg	-		03/01/24 21:27	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

Client Sample ID: B - 25 2'

Lab Sample ID: 890-6286-2

Date Collected: 02/28/24 09:45

Matrix: Solid

Date Received: 02/29/24 10:40

Percent Solids: 93.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<54.2	U	54.2		mg/Kg	☼	03/01/24 14:04	03/01/24 21:27	1
Diesel Range Organics (Over C10-C28)	72.5		54.2		mg/Kg	☼	03/01/24 14:04	03/01/24 21:27	1
Oil Range Organics (Over C28-C36)	<54.2	U	54.2		mg/Kg	☼	03/01/24 14:04	03/01/24 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				03/01/24 14:04	03/01/24 21:27	1
o-Terphenyl	97		70 - 130				03/01/24 14:04	03/01/24 21:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	672		5.01		mg/Kg			03/01/24 15:50	1

Client Sample ID: B - 27 2'

Lab Sample ID: 890-6286-3

Date Collected: 02/28/24 12:35

Matrix: Solid

Date Received: 02/29/24 10:40

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00212	U	0.00212		mg/Kg	☼	03/02/24 11:14	03/04/24 01:04	1
Toluene	0.00268		0.00212		mg/Kg	☼	03/02/24 11:14	03/04/24 01:04	1
Ethylbenzene	<0.00212	U	0.00212		mg/Kg	☼	03/02/24 11:14	03/04/24 01:04	1
m-Xylene & p-Xylene	<0.00424	U	0.00424		mg/Kg	☼	03/02/24 11:14	03/04/24 01:04	1
o-Xylene	<0.00212	U	0.00212		mg/Kg	☼	03/02/24 11:14	03/04/24 01:04	1
Xylenes, Total	<0.00424	U	0.00424		mg/Kg	☼	03/02/24 11:14	03/04/24 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				03/02/24 11:14	03/04/24 01:04	1
1,4-Difluorobenzene (Surr)	76		70 - 130				03/02/24 11:14	03/04/24 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		52.3		mg/Kg			03/01/24 21:48	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	<52.3	U	52.3		mg/Kg	☼	03/01/24 14:04	03/01/24 21:48	1
Diesel Range Organics (Over C10-C28)	101		52.3		mg/Kg	☼	03/01/24 14:04	03/01/24 21:48	1
Oil Range Organics (Over C28-C36)	<52.3	U	52.3		mg/Kg	☼	03/01/24 14:04	03/01/24 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/01/24 14:04	03/01/24 21:48	1
o-Terphenyl	105		70 - 130				03/01/24 14:04	03/01/24 21:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	461		5.02		mg/Kg			03/01/24 15:55	1

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-6286-1	B - 24 2'	81	91
890-6286-1 MS	B - 24 2'	90	96
890-6286-1 MSD	B - 24 2'	81	76
890-6286-2	B - 25 2'	76	73
890-6286-3	B - 27 2'	76	76
LCS 880-74522/1-A	Lab Control Sample	95	115
LCSD 880-74522/2-A	Lab Control Sample Dup	100	112
MB 880-74521/5-A	Method Blank	77	91
MB 880-74522/5-A	Method Blank	71	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)
890-6286-1	B - 24 2'	97	81
890-6286-1 MS	B - 24 2'	108	84
890-6286-1 MSD	B - 24 2'	105	84
890-6286-2	B - 25 2'	111	97
890-6286-3	B - 27 2'	119	105
LCS 880-74494/2-A	Lab Control Sample	128	131 S1+
LCSD 880-74494/3-A	Lab Control Sample Dup	121	112
MB 880-74494/1-A	Method Blank	156 S1+	135 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74521/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 74546							Prep Batch: 74521		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/02/24 11:00	03/03/24 13:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				03/02/24 11:00	03/03/24 13:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/02/24 11:00	03/03/24 13:22	1

Lab Sample ID: MB 880-74522/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 74546							Prep Batch: 74522		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:14	03/04/24 00:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:14	03/04/24 00:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:14	03/04/24 00:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/02/24 11:14	03/04/24 00:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/02/24 11:14	03/04/24 00:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/02/24 11:14	03/04/24 00:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130				03/02/24 11:14	03/04/24 00:02	1
1,4-Difluorobenzene (Surr)	86		70 - 130				03/02/24 11:14	03/04/24 00:02	1

Lab Sample ID: LCS 880-74522/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 74546							Prep Batch: 74522		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1032		mg/Kg		103	70 - 130		
Toluene	0.100	0.1068		mg/Kg		107	70 - 130		
Ethylbenzene	0.100	0.1026		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene	0.200	0.1991		mg/Kg		100	70 - 130		
o-Xylene	0.100	0.1304		mg/Kg		130	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	95		70 - 130						
1,4-Difluorobenzene (Surr)	115		70 - 130						

Lab Sample ID: LCSD 880-74522/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 74546							Prep Batch: 74522		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1003		mg/Kg		100	70 - 130	3	35

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

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

Lab Sample ID: LCSD 880-74522/2-A
Matrix: Solid
Analysis Batch: 74546

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74522

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added		Result	Qualifier				Limits	RPD	
Toluene	0.100		0.1042		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100		0.1043		mg/Kg		104	70 - 130	2	35
m-Xylene & p-Xylene	0.200		0.2004		mg/Kg		100	70 - 130	1	35
o-Xylene	0.100		0.1152		mg/Kg		115	70 - 130	12	35
		LCSD	LCSD							
Surrogate		%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)		100		70 - 130						
1,4-Difluorobenzene (Surr)		112		70 - 130						

Lab Sample ID: 890-6286-1 MS
Matrix: Solid
Analysis Batch: 74546

Client Sample ID: B - 24 2'
Prep Type: Total/NA
Prep Batch: 74522

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Benzene	<0.00211	U F2 F1	0.107	0.05009	F1	mg/Kg	⚠	46	70 - 130	
Toluene	<0.00211	U F1	0.107	0.05884	F1	mg/Kg	⚠	55	70 - 130	
Ethylbenzene	<0.00211	U F2 F1	0.107	0.05275	F1	mg/Kg	⚠	49	70 - 130	
m-Xylene & p-Xylene	<0.00421	U F2 F1	0.213	0.09515	F1	mg/Kg	⚠	44	70 - 130	
o-Xylene	<0.00211	U F1	0.107	0.04940	F1	mg/Kg	⚠	46	70 - 130	
		MS	MS							
Surrogate		%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)		90		70 - 130						
1,4-Difluorobenzene (Surr)		96		70 - 130						

Lab Sample ID: 890-6286-1 MSD
Matrix: Solid
Analysis Batch: 74546

Client Sample ID: B - 24 2'
Prep Type: Total/NA
Prep Batch: 74522

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzene	<0.00211	U F2 F1	0.106	0.02973	F2 F1	mg/Kg	⚠	27	70 - 130	51	35
Toluene	<0.00211	U F1	0.106	0.04295	F1	mg/Kg	⚠	40	70 - 130	31	35
Ethylbenzene	<0.00211	U F2 F1	0.106	0.03583	F2 F1	mg/Kg	⚠	34	70 - 130	38	35
m-Xylene & p-Xylene	<0.00421	U F2 F1	0.212	0.06416	F2 F1	mg/Kg	⚠	30	70 - 130	39	35
o-Xylene	<0.00211	U F1	0.106	0.03982	F1	mg/Kg	⚠	37	70 - 130	21	35
		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		81		70 - 130							
1,4-Difluorobenzene (Surr)		76		70 - 130							

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

Lab Sample ID: MB 880-74494/1-A
Matrix: Solid
Analysis Batch: 74445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74494

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/01/24 14:04	03/01/24 19:16	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

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

Lab Sample ID: MB 880-74494/1-A
Matrix: Solid
Analysis Batch: 74445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74494

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/01/24 14:04	03/01/24 19:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/01/24 14:04	03/01/24 19:16	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	156	S1+	70 - 130				03/01/24 14:04	03/01/24 19:16	1
o-Terphenyl	135	S1+	70 - 130				03/01/24 14:04	03/01/24 19:16	1

Lab Sample ID: LCS 880-74494/2-A
Matrix: Solid
Analysis Batch: 74445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	763.9		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1101		mg/Kg		110	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	128		70 - 130						
o-Terphenyl	131	S1+	70 - 130						

Lab Sample ID: LCSD 880-74494/3-A
Matrix: Solid
Analysis Batch: 74445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	752.7		mg/Kg		75	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1007		mg/Kg		101	70 - 130	9	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	121		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: 890-6286-1 MS
Matrix: Solid
Analysis Batch: 74445

Client Sample ID: B - 24 2'
Prep Type: Total/NA
Prep Batch: 74494

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<52.6	U	1070	1111		mg/Kg	☼	100	70 - 130		
Diesel Range Organics (Over C10-C28)	63.0		1070	1036		mg/Kg	☼	91	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	108		70 - 130								
o-Terphenyl	84		70 - 130								

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

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

Lab Sample ID: 890-6286-1 MSD

Matrix: Solid

Analysis Batch: 74445

Client Sample ID: B - 24 2'

Prep Type: Total/NA

Prep Batch: 74494

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	<52.6	U	1070	955.0		mg/Kg	✖	85	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	63.0		1070	1014		mg/Kg	✖	89	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	84		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74425/1-A

Matrix: Solid

Analysis Batch: 74502

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/01/24 15:17	1

Lab Sample ID: LCS 880-74425/2-A

Matrix: Solid

Analysis Batch: 74502

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.0		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-74425/3-A

Matrix: Solid

Analysis Batch: 74502

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.5		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-6286-1 MS

Matrix: Solid

Analysis Batch: 74502

Client Sample ID: B - 24 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	977		1250	2261		mg/Kg		103	90 - 110

Lab Sample ID: 890-6286-1 MSD

Matrix: Solid

Analysis Batch: 74502

Client Sample ID: B - 24 2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	977		1250	2271		mg/Kg		104	90 - 110	0	20

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

GC VOA

Prep Batch: 74521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74521/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 74522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6286-1	B - 24 2'	Total/NA	Solid	5030B	
890-6286-2	B - 25 2'	Total/NA	Solid	5030B	
890-6286-3	B - 27 2'	Total/NA	Solid	5030B	
MB 880-74522/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-74522/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-74522/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-6286-1 MS	B - 24 2'	Total/NA	Solid	5030B	
890-6286-1 MSD	B - 24 2'	Total/NA	Solid	5030B	

Analysis Batch: 74546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6286-1	B - 24 2'	Total/NA	Solid	8021B	74522
890-6286-2	B - 25 2'	Total/NA	Solid	8021B	74522
890-6286-3	B - 27 2'	Total/NA	Solid	8021B	74522
MB 880-74521/5-A	Method Blank	Total/NA	Solid	8021B	74521
MB 880-74522/5-A	Method Blank	Total/NA	Solid	8021B	74522
LCS 880-74522/1-A	Lab Control Sample	Total/NA	Solid	8021B	74522
LCSD 880-74522/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74522
890-6286-1 MS	B - 24 2'	Total/NA	Solid	8021B	74522
890-6286-1 MSD	B - 24 2'	Total/NA	Solid	8021B	74522

GC Semi VOA

Analysis Batch: 74445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6286-1	B - 24 2'	Total/NA	Solid	8015B NM	74494
890-6286-2	B - 25 2'	Total/NA	Solid	8015B NM	74494
890-6286-3	B - 27 2'	Total/NA	Solid	8015B NM	74494
MB 880-74494/1-A	Method Blank	Total/NA	Solid	8015B NM	74494
LCS 880-74494/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74494
LCSD 880-74494/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74494
890-6286-1 MS	B - 24 2'	Total/NA	Solid	8015B NM	74494
890-6286-1 MSD	B - 24 2'	Total/NA	Solid	8015B NM	74494

Prep Batch: 74494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6286-1	B - 24 2'	Total/NA	Solid	8015NM Prep	
890-6286-2	B - 25 2'	Total/NA	Solid	8015NM Prep	
890-6286-3	B - 27 2'	Total/NA	Solid	8015NM Prep	
MB 880-74494/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74494/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74494/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6286-1 MS	B - 24 2'	Total/NA	Solid	8015NM Prep	
890-6286-1 MSD	B - 24 2'	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

GC Semi VOA

Analysis Batch: 74673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6286-1	B - 24 2'	Total/NA	Solid	8015 NM	
890-6286-2	B - 25 2'	Total/NA	Solid	8015 NM	
890-6286-3	B - 27 2'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 74425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6286-1	B - 24 2'	Soluble	Solid	DI Leach	
890-6286-2	B - 25 2'	Soluble	Solid	DI Leach	
890-6286-3	B - 27 2'	Soluble	Solid	DI Leach	
MB 880-74425/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74425/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74425/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6286-1 MS	B - 24 2'	Soluble	Solid	DI Leach	
890-6286-1 MSD	B - 24 2'	Soluble	Solid	DI Leach	

Analysis Batch: 74502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6286-1	B - 24 2'	Soluble	Solid	300.0	74425
890-6286-2	B - 25 2'	Soluble	Solid	300.0	74425
890-6286-3	B - 27 2'	Soluble	Solid	300.0	74425
MB 880-74425/1-A	Method Blank	Soluble	Solid	300.0	74425
LCS 880-74425/2-A	Lab Control Sample	Soluble	Solid	300.0	74425
LCSD 880-74425/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74425
890-6286-1 MS	B - 24 2'	Soluble	Solid	300.0	74425
890-6286-1 MSD	B - 24 2'	Soluble	Solid	300.0	74425

General Chemistry

Analysis Batch: 74426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6286-1	B - 24 2'	Total/NA	Solid	D2216	
890-6286-2	B - 25 2'	Total/NA	Solid	D2216	
890-6286-3	B - 27 2'	Total/NA	Solid	D2216	
MB 880-74426/1	Method Blank	Total/NA	Solid	D2216	
890-6286-1 DU	B - 24 2'	Total/NA	Solid	D2216	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

Client Sample ID: B - 24 2'
Date Collected: 02/28/24 09:40
Date Received: 02/29/24 10:40

Lab Sample ID: 890-6286-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			74673	03/01/24 20:22	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		5			74502	03/01/24 15:33	CH	EET MID
Total/NA	Analysis	D2216		1			74426	03/01/24 11:13	SMC	EET MID

Client Sample ID: B - 24 2'
Date Collected: 02/28/24 09:40
Date Received: 02/29/24 10:40

Lab Sample ID: 890-6286-1
Matrix: Solid
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	74522	03/02/24 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/04/24 00:24	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74494	03/01/24 14:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 20:22	SM	EET MID

Client Sample ID: B - 25 2'
Date Collected: 02/28/24 09:45
Date Received: 02/29/24 10:40

Lab Sample ID: 890-6286-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			74673	03/01/24 21:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1			74502	03/01/24 15:50	CH	EET MID
Total/NA	Analysis	D2216		1			74426	03/01/24 11:13	SMC	EET MID

Client Sample ID: B - 25 2'
Date Collected: 02/28/24 09:45
Date Received: 02/29/24 10:40

Lab Sample ID: 890-6286-2
Matrix: Solid
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	74522	03/02/24 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/04/24 00:44	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74494	03/01/24 14:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 21:27	SM	EET MID

Client Sample ID: B - 27 2'
Date Collected: 02/28/24 12:35
Date Received: 02/29/24 10:40

Lab Sample ID: 890-6286-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			74673	03/01/24 21:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74425	03/01/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1			74502	03/01/24 15:55	CH	EET MID
Total/NA	Analysis	D2216		1			74426	03/01/24 11:13	SMC	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

Client Sample ID: B - 27 2'
Date Collected: 02/28/24 12:35
Date Received: 02/29/24 10:40

Lab Sample ID: 890-6286-3
Matrix: Solid
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	74522	03/02/24 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74546	03/04/24 01:04	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74494	03/01/24 14:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74445	03/01/24 21:48	SM	EET MID

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

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Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

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
D2216		Solid	Percent Solids

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

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
D2216	Percent Moisture	ASTM	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: SCB 23 - 14

Job ID: 890-6286-1
SDG: 30210275

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6286-1	B - 24 2'	Solid	02/28/24 09:40	02/29/24 10:40
890-6286-2	B - 25 2'	Solid	02/28/24 09:45	02/29/24 10:40
890-6286-3	B - 27 2'	Solid	02/28/24 12:35	02/29/24 10:40

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Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Heath Boyd</u>		Lab PM: <u>880-8032-1136.14</u>	
Client Contact: <u>Mr. Morgan Jordan</u>		Phone: <u>575.942.0292</u>		E-Mail: <u>John.Bulles@et.eurofinrus.com</u>	
Company: <u>ARCADIS US Inc</u>		PWSID: <u></u>		State of Origin: <u>NM</u>	
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested: <u></u>		Carrier Tracking No(s): <u></u>	
City: <u>Midland</u>		TAT Requested (days): <u>24 hr</u>		Page: <u>14 of 14</u>	
State Zip: <u>TX. 79701</u>		Compliance Project: <u>Δ Yes Δ No</u>		Job #: <u>1071</u>	
Phone: <u>281-644-9437(Tel)</u>		Purchase Order Requested: <u>WO #</u>		Preservation Codes: <u></u>	
Email: <u>59404h.jordan@arcadis.com</u>		Project # <u>60606020</u>		M - Hexane	
Project Name: <u>SCB 23-14</u>		SSOW#: <u>30210275</u>		N - None	
Site: <u>Eddy County, NM</u>		Field Filtered Sample (Yes or No) <u>N</u>		O - AsNaO2	
Sample Identification		Sample Date		P - Na2CO3	
B-24 2'		2/28/24		Q - Na2SO3	
B-25 2'		945		R - Na2S2O3	
B-27 2'		1235		S - H2SO4	
				T - TSP Dodecahydrate	
				U - Acetone	
				V - MCAA	
				W - pH 4.5	
				Y - Trizma	
				Z - other (specify)	
				Other: <u></u>	
				K - EDTA	
				L - EDA	
				M - EDTA	
				N - EDTA	
				O - EDTA	
				P - EDTA	
				Q - EDTA	
				R - EDTA	
				S - EDTA	
				T - EDTA	
				U - EDTA	
				V - EDTA	
				W - EDTA	
				X - EDTA	
				Y - EDTA	
				Z - EDTA	
				Other: <u></u>	
				Total Number of containers: <u></u>	
				Special Instructions/Note: <u></u>	
				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
				☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u></u> Months	
				Special Instructions/QC Requirements: <u></u>	
				Empty Kit Relinquished by: <u></u>	
				Reinquired by: <u></u>	
				Reinquired by: <u></u>	
				Reinquired by: <u></u>	
				Custody Seals Intact: <u></u>	
				Custody Seal No.: <u></u>	

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record



Environment Testing

Client Information		Sampler: <i>Heath Boyd</i>		Lab PM: <i>Bules, John</i>		Carrier Tracking No(s):		COC No: 880-8032-1136.14											
Client Contact: <i>Mr. Morgan Jordan</i>		Phone: <i>575.942.0292</i>		E-Mail: <i>John.Bules@eurofins.com</i>		State of Origin: <i>NM</i>		Page: 14 of 14											
Company: <i>ARCADIS US Inc</i>		PWSID:		Analysis Requested		Job #:		Page 1 of 1											
Address: <i>1004 North Big Spring Suite 300</i>		Due Date Requested:		TAT Requested (days): <i>24 hr</i>		Compliance Project: <i>Δ Yes Δ No</i>		Purchase Order Requested											
City: <i>Midland</i>		State Zip: <i>TX, 79701</i>		Phone: <i>261-644-9437 (Tel)</i>		Project #: <i>30210275</i>		SSDW#: <i>60602620</i>											
Email: <i>Sarah.Jordan@arcadis.com</i>		Project Name: <i>SCB 23-14</i>		Field Filtered Sample (Yes or No)		300_ORGFM_28D, 8015MOD_NM, 8021B		Barcode: 890-6286 Chain of Custody											
Site: <i>Eddy County, NM</i>		Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=solid, O=Other)		Preservation Code: <i>ERT-1000 (A-M)</i>		Field Filtered Sample (Yes or No)		Total Number of containers		Special Instructions/Note:	
<i>B-24</i>		<i>2'</i>		<i>2/28/24</i>		<i>940</i>		<i>C</i>		<i>Solid</i>		<i>X</i>		<i>N</i>		<i>X</i>		<i></i>	
<i>B-25</i>		<i>2'</i>		<i>1</i>		<i>945</i>		<i>1</i>		<i>1</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i></i>	
<i>B-27</i>		<i>2'</i>		<i>X</i>		<i>1235</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i></i>	
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 <i>Months</i>		Special Instructions/Note:		Preservation Codes:		Other:		Method of Shipment:		Date/Time:		Company:	
Empty Kit Relinquished by:		Date/Time: <i>2/29/24 1040</i>		Company: <i>ARCADIS</i>		Received by: <i>Bules, John</i>		Date/Time: <i>2/29/24 1040</i>		Company: <i>ARCADIS</i>		Received by: <i>Bules, John</i>		Date/Time: <i>2/29/24 1040</i>		Company: <i>ARCADIS</i>		Custody Seals Intact: <i>Δ Yes Δ No</i>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Custody Seal No.:	
Custody Seals Intact: <i>Δ Yes Δ No</i>		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6286-1

SDG Number: 30210275

Login Number: 6286

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6286-1

SDG Number: 30210275

Login Number: 6286

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/01/24 12:23 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 3/4/2024 6:03:27 PM

JOB DESCRIPTION

SCB 23-14
30210275

JOB NUMBER

890-6297-1



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
3/4/2024 6:03:27 PM

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

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Laboratory Job ID: 890-6297-1
SDG: 30210275

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: SCB 23-14

Job ID: 890-6297-1

Job ID: 890-6297-1

Eurofins Carlsbad

Job Narrative
890-6297-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/1/2024 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-40 (890-6297-1), B-41 (890-6297-2), B-42 (890-6297-3), B-43 (890-6297-4), B-44 (890-6297-5), B-45 (890-6297-6), B-46 (890-6297-7), B-47 (890-6297-8), B-48 (890-6297-9), B-49 (890-6297-10), B-50 (890-6297-11), B-51 (890-6297-12), B-52 (890-6297-13), B-53 (890-6297-14), B-54 (890-6297-15), B-55 (890-6297-16), B-12 (890-6297-17), B-13 (890-6297-18), SW-1A (890-6297-19), SW-2 (890-6297-20), SW-3 (890-6297-21), SW-4 (890-6297-22), SW-5 (890-6297-23), B-8 (890-6297-24), B-9 (890-6297-25), B-10 (890-6297-26), B-35 (890-6297-27), B-38 (890-6297-28) and B-39 (890-6297-29).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74561 and analytical batch 880-74555 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 surrogate recovery for the blank associated with preparation batch 880-74559 and analytical batch 880-74554 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-5 (890-6297-23). 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-74570 and analytical batch 880-74566 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-74570 and analytical batch 880-74566 were outside control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-42 (890-6297-3), B-43 (890-6297-4) and (MB 880-74570/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-74579 and analytical batch 880-74568 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-8 (890-6297-24) and (MB 880-74579/1-A). 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.

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Case Narrative

Client: Arcadis U.S., Inc.
Project: SCB 23-14

Job ID: 890-6297-1

Job ID: 890-6297-1 (Continued)Eurofins Carlsbad

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74551 and analytical batch 880-74574 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.

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-40

Lab Sample ID: 890-6297-1

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 12:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 12:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 12:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 08:41	03/04/24 12:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 12:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 08:41	03/04/24 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	03/04/24 08:41	03/04/24 12:18	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/04/24 08:41	03/04/24 12:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/04/24 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/04/24 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F2	49.9		mg/Kg		03/04/24 09:32	03/04/24 11:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/24 09:32	03/04/24 11:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/24 09:32	03/04/24 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	03/04/24 09:32	03/04/24 11:37	1
o-Terphenyl	108		70 - 130	03/04/24 09:32	03/04/24 11:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	514		5.01		mg/Kg			03/04/24 09:49	1

Client Sample ID: B-41

Lab Sample ID: 890-6297-2

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:41	03/04/24 12:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:41	03/04/24 12:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:41	03/04/24 12:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/04/24 08:41	03/04/24 12:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:41	03/04/24 12:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/04/24 08:41	03/04/24 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/04/24 08:41	03/04/24 12:38	1
1,4-Difluorobenzene (Surr)	118		70 - 130	03/04/24 08:41	03/04/24 12:38	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-41

Lab Sample ID: 890-6297-2

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/04/24 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/04/24 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		03/04/24 09:32	03/04/24 12:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/04/24 09:32	03/04/24 12:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/04/24 09:32	03/04/24 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				03/04/24 09:32	03/04/24 12:41	1
o-Terphenyl	116		70 - 130				03/04/24 09:32	03/04/24 12:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	488		5.04		mg/Kg			03/04/24 10:05	1

Client Sample ID: B-42

Lab Sample ID: 890-6297-3

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:41	03/04/24 12:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:41	03/04/24 12:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:41	03/04/24 12:59	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/04/24 08:41	03/04/24 12:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:41	03/04/24 12:59	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/04/24 08:41	03/04/24 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				03/04/24 08:41	03/04/24 12:59	1
1,4-Difluorobenzene (Surr)	112		70 - 130				03/04/24 08:41	03/04/24 12:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/04/24 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/04/24 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6		mg/Kg		03/04/24 09:32	03/04/24 13:03	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/04/24 09:32	03/04/24 13:03	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-42

Lab Sample ID: 890-6297-3

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/04/24 09:32	03/04/24 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130				03/04/24 09:32	03/04/24 13:03	1
o-Terphenyl	138	S1+	70 - 130				03/04/24 09:32	03/04/24 13:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	565		4.99		mg/Kg			03/04/24 10:11	1

Client Sample ID: B-43

Lab Sample ID: 890-6297-4

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 13:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/04/24 08:41	03/04/24 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 13:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/04/24 08:41	03/04/24 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				03/04/24 08:41	03/04/24 13:19	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/04/24 08:41	03/04/24 13:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/04/24 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/04/24 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/04/24 09:32	03/04/24 13:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/24 09:32	03/04/24 13:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/24 09:32	03/04/24 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				03/04/24 09:32	03/04/24 13:25	1
o-Terphenyl	128		70 - 130				03/04/24 09:32	03/04/24 13:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		4.97		mg/Kg			03/04/24 10:16	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-44

Lab Sample ID: 890-6297-5

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 13:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 13:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 13:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 08:41	03/04/24 13:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 13:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 08:41	03/04/24 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/04/24 08:41	03/04/24 13:40	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/04/24 08:41	03/04/24 13:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/04/24 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/04/24 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *1	50.4		mg/Kg		03/04/24 09:32	03/04/24 13:46	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/04/24 09:32	03/04/24 13:46	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/04/24 09:32	03/04/24 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				03/04/24 09:32	03/04/24 13:46	1
o-Terphenyl	111		70 - 130				03/04/24 09:32	03/04/24 13:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		4.97		mg/Kg			03/04/24 10:22	1

Client Sample ID: B-45

Lab Sample ID: 890-6297-6

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:41	03/04/24 14:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:41	03/04/24 14:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:41	03/04/24 14:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/04/24 08:41	03/04/24 14:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:41	03/04/24 14:00	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/04/24 08:41	03/04/24 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/04/24 08:41	03/04/24 14:00	1
1,4-Difluorobenzene (Surr)	113		70 - 130				03/04/24 08:41	03/04/24 14:00	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-45

Lab Sample ID: 890-6297-6

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/04/24 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/04/24 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5		mg/Kg		03/04/24 09:32	03/04/24 14:08	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/04/24 09:32	03/04/24 14:08	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/04/24 09:32	03/04/24 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				03/04/24 09:32	03/04/24 14:08	1
o-Terphenyl	114		70 - 130				03/04/24 09:32	03/04/24 14:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		4.96		mg/Kg			03/04/24 10:39	1

Client Sample ID: B-46

Lab Sample ID: 890-6297-7

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:41	03/04/24 14:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:41	03/04/24 14:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:41	03/04/24 14:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/04/24 08:41	03/04/24 14:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:41	03/04/24 14:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/04/24 08:41	03/04/24 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/04/24 08:41	03/04/24 14:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/04/24 08:41	03/04/24 14:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/04/24 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	<49.8	U	49.8		mg/Kg			03/04/24 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		03/04/24 09:32	03/04/24 14:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/04/24 09:32	03/04/24 14:29	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-46

Lab Sample ID: 890-6297-7

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/04/24 09:32	03/04/24 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				03/04/24 09:32	03/04/24 14:29	1
o-Terphenyl	106		70 - 130				03/04/24 09:32	03/04/24 14:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		4.95		mg/Kg			03/04/24 10:44	1

Client Sample ID: B-47

Lab Sample ID: 890-6297-8

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 14:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 14:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 14:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 08:41	03/04/24 14:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:41	03/04/24 14:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 08:41	03/04/24 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				03/04/24 08:41	03/04/24 14:41	1
1,4-Difluorobenzene (Surr)	113		70 - 130				03/04/24 08:41	03/04/24 14:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/04/24 14:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/04/24 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		03/04/24 09:32	03/04/24 14:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/04/24 09:32	03/04/24 14:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/04/24 09:32	03/04/24 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/04/24 09:32	03/04/24 14:51	1
o-Terphenyl	106		70 - 130				03/04/24 09:32	03/04/24 14:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		4.96		mg/Kg			03/04/24 10:50	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-48

Lab Sample ID: 890-6297-9

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 15:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 15:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 15:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/04/24 08:41	03/04/24 15:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 15:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/04/24 08:41	03/04/24 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/04/24 08:41	03/04/24 15:02	1
1,4-Difluorobenzene (Surr)	116		70 - 130	03/04/24 08:41	03/04/24 15:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/04/24 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/04/24 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	<50.0	U *1	50.0		mg/Kg		03/04/24 09:32	03/04/24 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/24 09:32	03/04/24 15:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/24 09:32	03/04/24 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	03/04/24 09:32	03/04/24 15:13	1
o-Terphenyl	113		70 - 130	03/04/24 09:32	03/04/24 15:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		4.98		mg/Kg			03/04/24 10:55	1

Client Sample ID: B-49

Lab Sample ID: 890-6297-10

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:41	03/04/24 15:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:41	03/04/24 15:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:41	03/04/24 15:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/04/24 08:41	03/04/24 15:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:41	03/04/24 15:22	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/04/24 08:41	03/04/24 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/04/24 08:41	03/04/24 15:22	1
1,4-Difluorobenzene (Surr)	113		70 - 130	03/04/24 08:41	03/04/24 15:22	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-49

Lab Sample ID: 890-6297-10

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/04/24 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/04/24 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6		mg/Kg		03/04/24 09:32	03/04/24 15:51	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/04/24 09:32	03/04/24 15:51	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/04/24 09:32	03/04/24 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/04/24 09:32	03/04/24 15:51	1
o-Terphenyl	108		70 - 130				03/04/24 09:32	03/04/24 15:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	580		4.96		mg/Kg			03/04/24 11:01	1

Client Sample ID: B-50

Lab Sample ID: 890-6297-11

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:49	03/04/24 11:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:49	03/04/24 11:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:49	03/04/24 11:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 08:49	03/04/24 11:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:49	03/04/24 11:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 08:49	03/04/24 11:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				03/04/24 08:49	03/04/24 11:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/04/24 08:49	03/04/24 11:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/04/24 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/04/24 16:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		03/04/24 09:32	03/04/24 16:35	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/04/24 09:32	03/04/24 16:35	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-50

Lab Sample ID: 890-6297-11

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/04/24 09:32	03/04/24 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/04/24 09:32	03/04/24 16:35	1
o-Terphenyl	105		70 - 130				03/04/24 09:32	03/04/24 16:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	405	F1	4.95		mg/Kg			03/04/24 11:06	1

Client Sample ID: B-51

Lab Sample ID: 890-6297-12

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:49	03/04/24 12:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:49	03/04/24 12:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:49	03/04/24 12:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/04/24 08:49	03/04/24 12:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:49	03/04/24 12:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/04/24 08:49	03/04/24 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/04/24 08:49	03/04/24 12:02	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/04/24 08:49	03/04/24 12:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/04/24 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/04/24 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *1	50.4		mg/Kg		03/04/24 09:32	03/04/24 16:56	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/04/24 09:32	03/04/24 16:56	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/04/24 09:32	03/04/24 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				03/04/24 09:32	03/04/24 16:56	1
o-Terphenyl	117		70 - 130				03/04/24 09:32	03/04/24 16:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206		5.03		mg/Kg			03/04/24 11:23	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-52

Lab Sample ID: 890-6297-13

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:49	03/04/24 12:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:49	03/04/24 12:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:49	03/04/24 12:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/04/24 08:49	03/04/24 12:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:49	03/04/24 12:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/04/24 08:49	03/04/24 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/04/24 08:49	03/04/24 12:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/04/24 08:49	03/04/24 12:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/04/24 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/04/24 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	<50.5	U *1	50.5		mg/Kg		03/04/24 09:32	03/04/24 17:17	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/04/24 09:32	03/04/24 17:17	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/04/24 09:32	03/04/24 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	03/04/24 09:32	03/04/24 17:17	1
o-Terphenyl	113		70 - 130	03/04/24 09:32	03/04/24 17:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.6		4.99		mg/Kg			03/04/24 11:28	1

Client Sample ID: B-53

Lab Sample ID: 890-6297-14

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 12:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 12:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 12:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/04/24 08:49	03/04/24 12:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 12:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/04/24 08:49	03/04/24 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/04/24 08:49	03/04/24 12:44	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/04/24 08:49	03/04/24 12:44	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-53

Lab Sample ID: 890-6297-14

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/04/24 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			03/04/24 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U *1	49.5		mg/Kg		03/04/24 09:32	03/04/24 17:38	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		03/04/24 09:32	03/04/24 17:38	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		03/04/24 09:32	03/04/24 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				03/04/24 09:32	03/04/24 17:38	1
o-Terphenyl	107		70 - 130				03/04/24 09:32	03/04/24 17:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		5.02		mg/Kg			03/04/24 11:45	1

Client Sample ID: B-54

Lab Sample ID: 890-6297-15

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 13:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 13:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 13:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/04/24 08:49	03/04/24 13:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 13:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/04/24 08:49	03/04/24 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/04/24 08:49	03/04/24 13:04	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/04/24 08:49	03/04/24 13:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/04/24 13:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/04/24 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6		mg/Kg		03/04/24 09:32	03/04/24 17:59	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/04/24 09:32	03/04/24 17:59	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-54

Lab Sample ID: 890-6297-15

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/04/24 09:32	03/04/24 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				03/04/24 09:32	03/04/24 17:59	1
o-Terphenyl	114		70 - 130				03/04/24 09:32	03/04/24 17:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		4.98		mg/Kg			03/04/24 11:50	1

Client Sample ID: B-55

Lab Sample ID: 890-6297-16

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:49	03/04/24 13:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:49	03/04/24 13:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:49	03/04/24 13:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/04/24 08:49	03/04/24 13:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:49	03/04/24 13:25	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/04/24 08:49	03/04/24 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/04/24 08:49	03/04/24 13:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/04/24 08:49	03/04/24 13:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/04/24 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/04/24 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		03/04/24 10:17	03/04/24 11:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/04/24 10:17	03/04/24 11:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/04/24 10:17	03/04/24 11:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/04/24 10:17	03/04/24 11:37	1
o-Terphenyl	122		70 - 130				03/04/24 10:17	03/04/24 11:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	295		4.99		mg/Kg			03/04/24 11:56	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-12

Lab Sample ID: 890-6297-17

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 13:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 13:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 13:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 08:49	03/04/24 13:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 13:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 08:49	03/04/24 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/04/24 08:49	03/04/24 13:46	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/04/24 08:49	03/04/24 13:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/04/24 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	130		50.5		mg/Kg			03/04/24 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5		mg/Kg		03/04/24 10:17	03/04/24 12:41	1
Diesel Range Organics (Over C10-C28)	130		50.5		mg/Kg		03/04/24 10:17	03/04/24 12:41	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/04/24 10:17	03/04/24 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	03/04/24 10:17	03/04/24 12:41	1
o-Terphenyl	129		70 - 130	03/04/24 10:17	03/04/24 12:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	995		4.96		mg/Kg			03/04/24 12:02	1

Client Sample ID: B-13

Lab Sample ID: 890-6297-18

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:49	03/04/24 14:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:49	03/04/24 14:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:49	03/04/24 14:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 08:49	03/04/24 14:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:49	03/04/24 14:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 08:49	03/04/24 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/04/24 08:49	03/04/24 14:06	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/04/24 08:49	03/04/24 14:06	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-13

Lab Sample ID: 890-6297-18

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/04/24 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/04/24 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/04/24 10:17	03/04/24 13:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/24 10:17	03/04/24 13:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/24 10:17	03/04/24 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/04/24 10:17	03/04/24 13:03	1
o-Terphenyl	117		70 - 130				03/04/24 10:17	03/04/24 13:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	484		5.00		mg/Kg			03/04/24 12:07	1

Client Sample ID: SW-1A

Lab Sample ID: 890-6297-19

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:49	03/04/24 14:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:49	03/04/24 14:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:49	03/04/24 14:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/04/24 08:49	03/04/24 14:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:49	03/04/24 14:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/04/24 08:49	03/04/24 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/04/24 08:49	03/04/24 14:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/04/24 08:49	03/04/24 14:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/04/24 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/04/24 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		03/04/24 10:17	03/04/24 13:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/04/24 10:17	03/04/24 13:25	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: SW-1A

Lab Sample ID: 890-6297-19

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/04/24 10:17	03/04/24 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/04/24 10:17	03/04/24 13:25	1
o-Terphenyl	115		70 - 130				03/04/24 10:17	03/04/24 13:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	335		4.98		mg/Kg			03/04/24 12:13	1

Client Sample ID: SW-2

Lab Sample ID: 890-6297-20

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:49	03/04/24 14:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:49	03/04/24 14:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:49	03/04/24 14:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/04/24 08:49	03/04/24 14:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:49	03/04/24 14:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/04/24 08:49	03/04/24 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/04/24 08:49	03/04/24 14:48	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/04/24 08:49	03/04/24 14:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/04/24 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/04/24 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6		mg/Kg		03/04/24 10:17	03/04/24 13:46	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/04/24 10:17	03/04/24 13:46	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/04/24 10:17	03/04/24 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				03/04/24 10:17	03/04/24 13:46	1
o-Terphenyl	122		70 - 130				03/04/24 10:17	03/04/24 13:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3		5.00		mg/Kg			03/04/24 12:18	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: SW-3

Lab Sample ID: 890-6297-21

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		03/04/24 08:53	03/04/24 11:37	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		03/04/24 08:53	03/04/24 11:37	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		03/04/24 08:53	03/04/24 11:37	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		03/04/24 08:53	03/04/24 11:37	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		03/04/24 08:53	03/04/24 11:37	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		03/04/24 08:53	03/04/24 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/04/24 08:53	03/04/24 11:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/04/24 08:53	03/04/24 11:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/04/24 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/04/24 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		03/04/24 10:17	03/04/24 14:08	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/04/24 10:17	03/04/24 14:08	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/04/24 10:17	03/04/24 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	03/04/24 10:17	03/04/24 14:08	1
o-Terphenyl	119		70 - 130	03/04/24 10:17	03/04/24 14:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	472		4.98		mg/Kg			03/04/24 13:02	1

Client Sample ID: SW-4

Lab Sample ID: 890-6297-22

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:53	03/04/24 11:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:53	03/04/24 11:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:53	03/04/24 11:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/04/24 08:53	03/04/24 11:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/04/24 08:53	03/04/24 11:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/04/24 08:53	03/04/24 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	03/04/24 08:53	03/04/24 11:58	1
1,4-Difluorobenzene (Surr)	80		70 - 130	03/04/24 08:53	03/04/24 11:58	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: SW-4

Lab Sample ID: 890-6297-22

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/04/24 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/04/24 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *1	50.4		mg/Kg		03/04/24 10:17	03/04/24 14:29	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/04/24 10:17	03/04/24 14:29	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/04/24 10:17	03/04/24 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				03/04/24 10:17	03/04/24 14:29	1
o-Terphenyl	126		70 - 130				03/04/24 10:17	03/04/24 14:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	783		5.00		mg/Kg			03/04/24 13:19	1

Client Sample ID: SW-5

Lab Sample ID: 890-6297-23

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:53	03/04/24 12:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:53	03/04/24 12:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:53	03/04/24 12:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/04/24 08:53	03/04/24 12:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/04/24 08:53	03/04/24 12:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/04/24 08:53	03/04/24 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				03/04/24 08:53	03/04/24 12:18	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				03/04/24 08:53	03/04/24 12:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/04/24 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/04/24 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5		mg/Kg		03/04/24 10:17	03/04/24 14:51	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/04/24 10:17	03/04/24 14:51	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: SW-5

Lab Sample ID: 890-6297-23

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/04/24 10:17	03/04/24 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/04/24 10:17	03/04/24 14:51	1
o-Terphenyl	122		70 - 130				03/04/24 10:17	03/04/24 14:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	754		4.99		mg/Kg			03/04/24 13:24	1

Client Sample ID: B-8

Lab Sample ID: 890-6297-24

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 12:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/04/24 08:53	03/04/24 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 12:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/04/24 08:53	03/04/24 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				03/04/24 08:53	03/04/24 12:39	1
1,4-Difluorobenzene (Surr)	84		70 - 130				03/04/24 08:53	03/04/24 12:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/04/24 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.7		49.8		mg/Kg			03/04/24 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	<49.8	U *1	49.8		mg/Kg		03/04/24 10:17	03/04/24 15:13	1
Diesel Range Organics (Over C10-C28)	50.7		49.8		mg/Kg		03/04/24 10:17	03/04/24 15:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/04/24 10:17	03/04/24 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				03/04/24 10:17	03/04/24 15:13	1
o-Terphenyl	167	S1+	70 - 130				03/04/24 10:17	03/04/24 15:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		5.05		mg/Kg			03/04/24 13:30	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-9

Lab Sample ID: 890-6297-25

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 12:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 12:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 12:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/04/24 08:53	03/04/24 12:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 12:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/04/24 08:53	03/04/24 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	03/04/24 08:53	03/04/24 12:59	1
1,4-Difluorobenzene (Surr)	79		70 - 130	03/04/24 08:53	03/04/24 12:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/04/24 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	146		49.8		mg/Kg			03/04/24 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		03/04/24 10:17	03/04/24 15:51	1
Diesel Range Organics (Over C10-C28)	146		49.8		mg/Kg		03/04/24 10:17	03/04/24 15:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/04/24 10:17	03/04/24 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/04/24 10:17	03/04/24 15:51	1
o-Terphenyl	125		70 - 130	03/04/24 10:17	03/04/24 15:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	709		4.97		mg/Kg			03/04/24 13:36	1

Client Sample ID: B-10

Lab Sample ID: 890-6297-26

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:53	03/04/24 13:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:53	03/04/24 13:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:53	03/04/24 13:19	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/04/24 08:53	03/04/24 13:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:53	03/04/24 13:19	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/04/24 08:53	03/04/24 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	03/04/24 08:53	03/04/24 13:19	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/04/24 08:53	03/04/24 13:19	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-10

Lab Sample ID: 890-6297-26

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/04/24 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.3		49.6		mg/Kg			03/04/24 16:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6		mg/Kg		03/04/24 10:17	03/04/24 16:35	1
Diesel Range Organics (Over C10-C28)	57.3		49.6		mg/Kg		03/04/24 10:17	03/04/24 16:35	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/04/24 10:17	03/04/24 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				03/04/24 10:17	03/04/24 16:35	1
o-Terphenyl	124		70 - 130				03/04/24 10:17	03/04/24 16:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		4.95		mg/Kg			03/04/24 13:52	1

Client Sample ID: B-35

Lab Sample ID: 890-6297-27

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 13:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 13:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 08:53	03/04/24 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 13:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 08:53	03/04/24 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				03/04/24 08:53	03/04/24 13:40	1
1,4-Difluorobenzene (Surr)	81		70 - 130				03/04/24 08:53	03/04/24 13:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/04/24 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/04/24 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/04/24 10:17	03/04/24 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/24 10:17	03/04/24 16:56	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-35

Lab Sample ID: 890-6297-27

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/24 10:17	03/04/24 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				03/04/24 10:17	03/04/24 16:56	1
o-Terphenyl	127		70 - 130				03/04/24 10:17	03/04/24 16:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	447		4.95		mg/Kg			03/04/24 13:58	1

Client Sample ID: B-38

Lab Sample ID: 890-6297-28

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:53	03/04/24 14:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:53	03/04/24 14:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:53	03/04/24 14:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 08:53	03/04/24 14:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 08:53	03/04/24 14:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 08:53	03/04/24 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				03/04/24 08:53	03/04/24 14:00	1
1,4-Difluorobenzene (Surr)	76		70 - 130				03/04/24 08:53	03/04/24 14:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/04/24 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/04/24 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	<49.7	U *1	49.7		mg/Kg		03/04/24 10:17	03/04/24 17:17	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/04/24 10:17	03/04/24 17:17	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/04/24 10:17	03/04/24 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				03/04/24 10:17	03/04/24 17:17	1
o-Terphenyl	120		70 - 130				03/04/24 10:17	03/04/24 17:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		4.99		mg/Kg			03/04/24 14:03	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-39
Date Collected: 03/01/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-29
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:53	03/04/24 14:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:53	03/04/24 14:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:53	03/04/24 14:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/04/24 08:53	03/04/24 14:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/04/24 08:53	03/04/24 14:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/04/24 08:53	03/04/24 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				03/04/24 08:53	03/04/24 14:21	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/04/24 08:53	03/04/24 14:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/04/24 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	57.8		50.0		mg/Kg			03/04/24 17:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/04/24 10:17	03/04/24 17:38	1
Diesel Range Organics (Over C10-C28)	57.8		50.0		mg/Kg		03/04/24 10:17	03/04/24 17:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/24 10:17	03/04/24 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				03/04/24 10:17	03/04/24 17:38	1
o-Terphenyl	127		70 - 130				03/04/24 10:17	03/04/24 17:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	331		5.04		mg/Kg			03/04/24 14:09	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-6297-1	B-40	88	106
890-6297-1 MS	B-40	94	104
890-6297-1 MSD	B-40	111	106
890-6297-2	B-41	112	118
890-6297-3	B-42	120	112
890-6297-4	B-43	118	103
890-6297-5	B-44	106	105
890-6297-6	B-45	107	113
890-6297-7	B-46	108	102
890-6297-8	B-47	112	113
890-6297-9	B-48	116	116
890-6297-10	B-49	112	113
890-6297-11	B-50	104	104
890-6297-11 MS	B-50	96	97
890-6297-11 MSD	B-50	101	100
890-6297-12	B-51	108	107
890-6297-13	B-52	102	105
890-6297-14	B-53	104	105
890-6297-15	B-54	101	105
890-6297-16	B-55	109	105
890-6297-17	B-12	99	106
890-6297-18	B-13	99	106
890-6297-19	SW-1A	108	107
890-6297-20	SW-2	101	104
890-6297-21	SW-3	90	88
890-6297-21 MS	SW-3	114	107
890-6297-21 MSD	SW-3	103	81
890-6297-22	SW-4	89	80
890-6297-23	SW-5	79	69 S1-
890-6297-24	B-8	79	84
890-6297-25	B-9	76	79
890-6297-26	B-10	78	89
890-6297-27	B-35	75	81
890-6297-28	B-38	79	76
890-6297-29	B-39	76	91
LCS 880-74559/1-A	Lab Control Sample	100	102
LCS 880-74560/1-A	Lab Control Sample	100	100
LCS 880-74561/1-A	Lab Control Sample	102	108
LCSD 880-74559/2-A	Lab Control Sample Dup	101	103
LCSD 880-74560/2-A	Lab Control Sample Dup	101	99
LCSD 880-74561/2-A	Lab Control Sample Dup	115	107
MB 880-74559/5-A	Method Blank	124	131 S1+
MB 880-74560/5-A	Method Blank	76	99
MB 880-74561/5-A	Method Blank	74	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6297-1	B-40	124	108
890-6297-1 MS	B-40	124	102
890-6297-1 MSD	B-40	142 S1+	115
890-6297-2	B-41	128	116
890-6297-3	B-42	155 S1+	138 S1+
890-6297-4	B-43	146 S1+	128
890-6297-5	B-44	126	111
890-6297-6	B-45	130	114
890-6297-7	B-46	120	106
890-6297-8	B-47	119	106
890-6297-9	B-48	125	113
890-6297-10	B-49	119	108
890-6297-11	B-50	119	105
890-6297-12	B-51	133 S1+	117
890-6297-13	B-52	130	113
890-6297-14	B-53	118	107
890-6297-15	B-54	130	114
890-6297-16	B-55	112	122
890-6297-16 MS	B-55	108	106
890-6297-16 MSD	B-55	113	109
890-6297-17	B-12	120	129
890-6297-18	B-13	108	117
890-6297-19	SW-1A	107	115
890-6297-20	SW-2	114	122
890-6297-21	SW-3	115	119
890-6297-22	SW-4	118	126
890-6297-23	SW-5	112	122
890-6297-24	B-8	152 S1+	167 S1+
890-6297-25	B-9	112	125
890-6297-26	B-10	114	124
890-6297-27	B-35	118	127
890-6297-28	B-38	111	120
890-6297-29	B-39	117	127
LCS 880-74570/2-A	Lab Control Sample	108	116
LCS 880-74579/2-A	Lab Control Sample	79	85
LCSD 880-74570/3-A	Lab Control Sample Dup	101	103
LCSD 880-74579/3-A	Lab Control Sample Dup	95	101
MB 880-74570/1-A	Method Blank	134 S1+	126
MB 880-74579/1-A	Method Blank	117	135 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74559/5-A

Matrix: Solid

Analysis Batch: 74554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 08:41	03/04/24 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:41	03/04/24 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 08:41	03/04/24 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	03/04/24 08:41	03/04/24 11:49	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130	03/04/24 08:41	03/04/24 11:49	1

Lab Sample ID: LCS 880-74559/1-A

Matrix: Solid

Analysis Batch: 74554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1079		mg/Kg		108	70 - 130
Toluene	0.100	0.09798		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09891		mg/Kg		99	70 - 130

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

Lab Sample ID: LCSD 880-74559/2-A

Matrix: Solid

Analysis Batch: 74554

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74559

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1010		mg/Kg		101	70 - 130	7	35
Toluene	0.100	0.09004		mg/Kg		90	70 - 130	8	35
Ethylbenzene	0.100	0.09868		mg/Kg		99	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1887		mg/Kg		94	70 - 130	10	35
o-Xylene	0.100	0.09025		mg/Kg		90	70 - 130	9	35

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

Lab Sample ID: 890-6297-1 MS

Matrix: Solid

Analysis Batch: 74554

Client Sample ID: B-40

Prep Type: Total/NA

Prep Batch: 74559

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1072		mg/Kg		106	70 - 130
Toluene	<0.00199	U	0.101	0.1001		mg/Kg		99	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

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

Lab Sample ID: 890-6297-1 MS

Matrix: Solid

Analysis Batch: 74554

Client Sample ID: B-40

Prep Type: Total/NA

Prep Batch: 74559

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.1026		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1950		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.101	0.09222		mg/Kg		91	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	94		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: 890-6297-1 MSD

Matrix: Solid

Analysis Batch: 74554

Client Sample ID: B-40

Prep Type: Total/NA

Prep Batch: 74559

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1085		mg/Kg		108	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.09693		mg/Kg		97	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.100	0.1075		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2249		mg/Kg		112	70 - 130	14	35
o-Xylene	<0.00199	U	0.100	0.1081		mg/Kg		108	70 - 130	16	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	111		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								

Lab Sample ID: MB 880-74560/5-A

Matrix: Solid

Analysis Batch: 74557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 08:49	03/04/24 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:49	03/04/24 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 08:49	03/04/24 11:20	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				03/04/24 08:49	03/04/24 11:20	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/04/24 08:49	03/04/24 11:20	1

Lab Sample ID: LCS 880-74560/1-A

Matrix: Solid

Analysis Batch: 74557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1144		mg/Kg		114	70 - 130
Toluene	0.100	0.1037		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1132		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2281		mg/Kg		114	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

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

Lab Sample ID: LCS 880-74560/1-A

Matrix: Solid

Analysis Batch: 74557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1097		mg/Kg		110	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 880-74560/2-A

Matrix: Solid

Analysis Batch: 74557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74560

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	9	35
Toluene	0.100	0.09705		mg/Kg		97	70 - 130	7	35
Ethylbenzene	0.100	0.1065		mg/Kg		106	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg		107	70 - 130	6	35
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	5	35

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

Lab Sample ID: 890-6297-11 MS

Matrix: Solid

Analysis Batch: 74557

Client Sample ID: B-50

Prep Type: Total/NA

Prep Batch: 74560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.08473		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.101	0.08255		mg/Kg		82	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.09335		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1873		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.101	0.09084		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-6297-11 MSD

Matrix: Solid

Analysis Batch: 74557

Client Sample ID: B-50

Prep Type: Total/NA

Prep Batch: 74560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09436		mg/Kg		94	70 - 130	11	35
Toluene	<0.00199	U	0.100	0.08611		mg/Kg		86	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.09473		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1875		mg/Kg		93	70 - 130	0	35
o-Xylene	<0.00199	U	0.100	0.09186		mg/Kg		91	70 - 130	1	35

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

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

Lab Sample ID: 890-6297-11 MSD

Matrix: Solid

Analysis Batch: 74557

Client Sample ID: B-50

Prep Type: Total/NA

Prep Batch: 74560

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-74561/5-A

Matrix: Solid

Analysis Batch: 74555

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74561

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 11:16	1	
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 11:16	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 11:16	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 08:53	03/04/24 11:16	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 11:16	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 08:53	03/04/24 11:16	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	74		70 - 130				03/04/24 08:53	03/04/24 11:16	1	
1,4-Difluorobenzene (Surr)	93		70 - 130				03/04/24 08:53	03/04/24 11:16	1	

Lab Sample ID: LCS 880-74561/1-A

Matrix: Solid

Analysis Batch: 74555

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74561

Analyte	Spike	LCS	LCS							
	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.09234		mg/Kg		92	70 - 130			
Toluene	0.100	0.09899		mg/Kg		99	70 - 130			
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130			
m-Xylene & p-Xylene	0.200	0.2002		mg/Kg		100	70 - 130			
o-Xylene	0.100	0.1048		mg/Kg		105	70 - 130			

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-74561/2-A

Matrix: Solid

Analysis Batch: 74555

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74561

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07741		mg/Kg		77	70 - 130	18	35	
Toluene	0.100	0.08769		mg/Kg		88	70 - 130	12	35	
Ethylbenzene	0.100	0.09970		mg/Kg		100	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130	2	35	
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	2	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

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

Lab Sample ID: LCSD 880-74561/2-A

Matrix: Solid

Analysis Batch: 74555

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74561

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

Lab Sample ID: 890-6297-21 MS

Matrix: Solid

Analysis Batch: 74555

Client Sample ID: SW-3

Prep Type: Total/NA

Prep Batch: 74561

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00199	U F2 F1	0.101	0.05260	F1	mg/Kg		51	70 - 130
Toluene	<0.00199	U F1	0.101	0.06065	F1	mg/Kg		60	70 - 130
Ethylbenzene	<0.00199	U F1	0.101	0.05648	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.202	0.1355	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00199	U F2 F1	0.101	0.07146		mg/Kg		71	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-6297-21 MSD

Matrix: Solid

Analysis Batch: 74555

Client Sample ID: SW-3

Prep Type: Total/NA

Prep Batch: 74561

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Benzene	<0.00199	U F2 F1	0.100	0.03286	F2 F1	mg/Kg		32	70 - 130	46
Toluene	<0.00199	U F1	0.100	0.04401	F1	mg/Kg		43	70 - 130	32
Ethylbenzene	<0.00199	U F1	0.100	0.04688	F1	mg/Kg		47	70 - 130	19
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.08641	F2 F1	mg/Kg		42	70 - 130	44
o-Xylene	<0.00199	U F2 F1	0.100	0.04424	F2 F1	mg/Kg		44	70 - 130	47

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

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

Lab Sample ID: MB 880-74570/1-A

Matrix: Solid

Analysis Batch: 74566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74570

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/24 09:32	03/04/24 09:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/24 09:32	03/04/24 09:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/24 09:32	03/04/24 09:03	1

	MB	MB					
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1-Chlorooctane	134	S1+	70 - 130	03/04/24 09:32	03/04/24 09:03	1	
o-Terphenyl	126		70 - 130	03/04/24 09:32	03/04/24 09:03	1	

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

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

Lab Sample ID: LCS 880-74570/2-A

Matrix: Solid

Analysis Batch: 74566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74570

Analyte			Spike	LCS	LCS	Unit	D	%Rec		
			Added	Result	Qualifier			Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1130		mg/Kg		113	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	959.2		mg/Kg		96	70 - 130	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	108		70 - 130							
o-Terphenyl	116		70 - 130							

Lab Sample ID: LCSD 880-74570/3-A

Matrix: Solid

Analysis Batch: 74566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74570

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limit		
Gasoline Range Organics (GRO)-C6-C10			1000	892.5	*1	mg/Kg		89	70 - 130	23	20
Diesel Range Organics (Over C10-C28)			1000	901.0		mg/Kg		90	70 - 130	6	20
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	101		70 - 130								
o-Terphenyl	103		70 - 130								

Lab Sample ID: 890-6297-1 MS

Matrix: Solid

Analysis Batch: 74566

Client Sample ID: B-40

Prep Type: Total/NA

Prep Batch: 74570

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F2	1000	919.8		mg/Kg		88	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1078		mg/Kg		105	70 - 130			
		MS	MS									
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	124		70 - 130									
o-Terphenyl	102		70 - 130									

Lab Sample ID: 890-6297-1 MSD

Matrix: Solid

Analysis Batch: 74566

Client Sample ID: B-40

Prep Type: Total/NA

Prep Batch: 74570

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F2	1000	1201	F2	mg/Kg		116	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1233		mg/Kg		120	70 - 130	13	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	142	S1+	70 - 130								

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

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

Lab Sample ID: 890-6297-1 MSD

Matrix: Solid

Analysis Batch: 74566

Client Sample ID: B-40

Prep Type: Total/NA

Prep Batch: 74570

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	115		70 - 130

Lab Sample ID: MB 880-74579/1-A

Matrix: Solid

Analysis Batch: 74568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74579

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/24 10:17	03/04/24 09:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/24 10:17	03/04/24 09:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/24 10:17	03/04/24 09:03	1
1-Chlorooctane	117		70 - 130				03/04/24 10:17	03/04/24 09:03	1
<i>o</i> -Terphenyl	135	S1+	70 - 130				03/04/24 10:17	03/04/24 09:03	1

Lab Sample ID: LCS 880-74579/2-A

Matrix: Solid

Analysis Batch: 74568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	792.6		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	1000	951.7		mg/Kg		95	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	79		70 - 130				
<i>o</i> -Terphenyl	85		70 - 130				

Lab Sample ID: LCSD 880-74579/3-A

Matrix: Solid

Analysis Batch: 74568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74579

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1123	*1	mg/Kg		112	70 - 130	34	20
Diesel Range Organics (Over C10-C28)	1000	1129		mg/Kg		113	70 - 130	17	20
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	95		70 - 130						
<i>o</i> -Terphenyl	101		70 - 130						

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

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

Lab Sample ID: 890-6297-16 MS

Matrix: Solid

Analysis Batch: 74568

Client Sample ID: B-55

Prep Type: Total/NA

Prep Batch: 74579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	1010	943.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	1010	979.9		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: 890-6297-16 MSD

Matrix: Solid

Analysis Batch: 74568

Client Sample ID: B-55

Prep Type: Total/NA

Prep Batch: 74579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	1010	964.4		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.7	U	1010	985.1		mg/Kg		94	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	109		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74551/1-A

Matrix: Solid

Analysis Batch: 74574

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/04/24 08:54	1

Lab Sample ID: LCS 880-74551/2-A

Matrix: Solid

Analysis Batch: 74574

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	231.5		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-74551/3-A

Matrix: Solid

Analysis Batch: 74574

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.7		mg/Kg		93	90 - 110	1	20

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-6297-1 MS

Matrix: Solid

Analysis Batch: 74574

Client Sample ID: B-40

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	514		251	762.6		mg/Kg		99	90 - 110		

Lab Sample ID: 890-6297-1 MSD

Matrix: Solid

Analysis Batch: 74574

Client Sample ID: B-40

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	514		251	767.7		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-6297-11 MS

Matrix: Solid

Analysis Batch: 74574

Client Sample ID: B-50

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	405	F1	248	622.7	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 890-6297-11 MSD

Matrix: Solid

Analysis Batch: 74574

Client Sample ID: B-50

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	405	F1	248	622.6	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: MB 880-74552/1-A

Matrix: Solid

Analysis Batch: 74606

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/04/24 12:46	1

Lab Sample ID: LCS 880-74552/2-A

Matrix: Solid

Analysis Batch: 74606

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride		250	234.7		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-74552/3-A

Matrix: Solid

Analysis Batch: 74606

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride		250	236.2		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 890-6297-21 MS

Matrix: Solid

Analysis Batch: 74606

Client Sample ID: SW-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	472		249	722.9		mg/Kg		101	90 - 110		

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-6297-21 MSD							Client Sample ID: SW-3					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 74606												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	472		249	727.4		mg/Kg		102	90 - 110	1	20	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

GC VOA

Analysis Batch: 74554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-1	B-40	Total/NA	Solid	8021B	74559
890-6297-2	B-41	Total/NA	Solid	8021B	74559
890-6297-3	B-42	Total/NA	Solid	8021B	74559
890-6297-4	B-43	Total/NA	Solid	8021B	74559
890-6297-5	B-44	Total/NA	Solid	8021B	74559
890-6297-6	B-45	Total/NA	Solid	8021B	74559
890-6297-7	B-46	Total/NA	Solid	8021B	74559
890-6297-8	B-47	Total/NA	Solid	8021B	74559
890-6297-9	B-48	Total/NA	Solid	8021B	74559
890-6297-10	B-49	Total/NA	Solid	8021B	74559
MB 880-74559/5-A	Method Blank	Total/NA	Solid	8021B	74559
LCS 880-74559/1-A	Lab Control Sample	Total/NA	Solid	8021B	74559
LCSD 880-74559/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74559
890-6297-1 MS	B-40	Total/NA	Solid	8021B	74559
890-6297-1 MSD	B-40	Total/NA	Solid	8021B	74559

Analysis Batch: 74555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-21	SW-3	Total/NA	Solid	8021B	74561
890-6297-22	SW-4	Total/NA	Solid	8021B	74561
890-6297-23	SW-5	Total/NA	Solid	8021B	74561
890-6297-24	B-8	Total/NA	Solid	8021B	74561
890-6297-25	B-9	Total/NA	Solid	8021B	74561
890-6297-26	B-10	Total/NA	Solid	8021B	74561
890-6297-27	B-35	Total/NA	Solid	8021B	74561
890-6297-28	B-38	Total/NA	Solid	8021B	74561
890-6297-29	B-39	Total/NA	Solid	8021B	74561
MB 880-74561/5-A	Method Blank	Total/NA	Solid	8021B	74561
LCS 880-74561/1-A	Lab Control Sample	Total/NA	Solid	8021B	74561
LCSD 880-74561/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74561
890-6297-21 MS	SW-3	Total/NA	Solid	8021B	74561
890-6297-21 MSD	SW-3	Total/NA	Solid	8021B	74561

Analysis Batch: 74557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-11	B-50	Total/NA	Solid	8021B	74560
890-6297-12	B-51	Total/NA	Solid	8021B	74560
890-6297-13	B-52	Total/NA	Solid	8021B	74560
890-6297-14	B-53	Total/NA	Solid	8021B	74560
890-6297-15	B-54	Total/NA	Solid	8021B	74560
890-6297-16	B-55	Total/NA	Solid	8021B	74560
890-6297-17	B-12	Total/NA	Solid	8021B	74560
890-6297-18	B-13	Total/NA	Solid	8021B	74560
890-6297-19	SW-1A	Total/NA	Solid	8021B	74560
890-6297-20	SW-2	Total/NA	Solid	8021B	74560
MB 880-74560/5-A	Method Blank	Total/NA	Solid	8021B	74560
LCS 880-74560/1-A	Lab Control Sample	Total/NA	Solid	8021B	74560
LCSD 880-74560/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74560
890-6297-11 MS	B-50	Total/NA	Solid	8021B	74560
890-6297-11 MSD	B-50	Total/NA	Solid	8021B	74560

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

GC VOA

Prep Batch: 74559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-1	B-40	Total/NA	Solid	5035	
890-6297-2	B-41	Total/NA	Solid	5035	
890-6297-3	B-42	Total/NA	Solid	5035	
890-6297-4	B-43	Total/NA	Solid	5035	
890-6297-5	B-44	Total/NA	Solid	5035	
890-6297-6	B-45	Total/NA	Solid	5035	
890-6297-7	B-46	Total/NA	Solid	5035	
890-6297-8	B-47	Total/NA	Solid	5035	
890-6297-9	B-48	Total/NA	Solid	5035	
890-6297-10	B-49	Total/NA	Solid	5035	
MB 880-74559/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74559/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74559/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6297-1 MS	B-40	Total/NA	Solid	5035	
890-6297-1 MSD	B-40	Total/NA	Solid	5035	

Prep Batch: 74560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-11	B-50	Total/NA	Solid	5035	
890-6297-12	B-51	Total/NA	Solid	5035	
890-6297-13	B-52	Total/NA	Solid	5035	
890-6297-14	B-53	Total/NA	Solid	5035	
890-6297-15	B-54	Total/NA	Solid	5035	
890-6297-16	B-55	Total/NA	Solid	5035	
890-6297-17	B-12	Total/NA	Solid	5035	
890-6297-18	B-13	Total/NA	Solid	5035	
890-6297-19	SW-1A	Total/NA	Solid	5035	
890-6297-20	SW-2	Total/NA	Solid	5035	
MB 880-74560/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74560/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74560/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6297-11 MS	B-50	Total/NA	Solid	5035	
890-6297-11 MSD	B-50	Total/NA	Solid	5035	

Prep Batch: 74561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-21	SW-3	Total/NA	Solid	5035	
890-6297-22	SW-4	Total/NA	Solid	5035	
890-6297-23	SW-5	Total/NA	Solid	5035	
890-6297-24	B-8	Total/NA	Solid	5035	
890-6297-25	B-9	Total/NA	Solid	5035	
890-6297-26	B-10	Total/NA	Solid	5035	
890-6297-27	B-35	Total/NA	Solid	5035	
890-6297-28	B-38	Total/NA	Solid	5035	
890-6297-29	B-39	Total/NA	Solid	5035	
MB 880-74561/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74561/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74561/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6297-21 MS	SW-3	Total/NA	Solid	5035	
890-6297-21 MSD	SW-3	Total/NA	Solid	5035	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

GC VOA

Analysis Batch: 74730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-1	B-40	Total/NA	Solid	Total BTEX	
890-6297-2	B-41	Total/NA	Solid	Total BTEX	
890-6297-3	B-42	Total/NA	Solid	Total BTEX	
890-6297-4	B-43	Total/NA	Solid	Total BTEX	
890-6297-5	B-44	Total/NA	Solid	Total BTEX	
890-6297-6	B-45	Total/NA	Solid	Total BTEX	
890-6297-7	B-46	Total/NA	Solid	Total BTEX	
890-6297-8	B-47	Total/NA	Solid	Total BTEX	
890-6297-9	B-48	Total/NA	Solid	Total BTEX	
890-6297-10	B-49	Total/NA	Solid	Total BTEX	
890-6297-11	B-50	Total/NA	Solid	Total BTEX	
890-6297-12	B-51	Total/NA	Solid	Total BTEX	
890-6297-13	B-52	Total/NA	Solid	Total BTEX	
890-6297-14	B-53	Total/NA	Solid	Total BTEX	
890-6297-15	B-54	Total/NA	Solid	Total BTEX	
890-6297-16	B-55	Total/NA	Solid	Total BTEX	
890-6297-17	B-12	Total/NA	Solid	Total BTEX	
890-6297-18	B-13	Total/NA	Solid	Total BTEX	
890-6297-19	SW-1A	Total/NA	Solid	Total BTEX	
890-6297-20	SW-2	Total/NA	Solid	Total BTEX	
890-6297-21	SW-3	Total/NA	Solid	Total BTEX	
890-6297-22	SW-4	Total/NA	Solid	Total BTEX	
890-6297-23	SW-5	Total/NA	Solid	Total BTEX	
890-6297-24	B-8	Total/NA	Solid	Total BTEX	
890-6297-25	B-9	Total/NA	Solid	Total BTEX	
890-6297-26	B-10	Total/NA	Solid	Total BTEX	
890-6297-27	B-35	Total/NA	Solid	Total BTEX	
890-6297-28	B-38	Total/NA	Solid	Total BTEX	
890-6297-29	B-39	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 74566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-1	B-40	Total/NA	Solid	8015B NM	74570
890-6297-2	B-41	Total/NA	Solid	8015B NM	74570
890-6297-3	B-42	Total/NA	Solid	8015B NM	74570
890-6297-4	B-43	Total/NA	Solid	8015B NM	74570
890-6297-5	B-44	Total/NA	Solid	8015B NM	74570
890-6297-6	B-45	Total/NA	Solid	8015B NM	74570
890-6297-7	B-46	Total/NA	Solid	8015B NM	74570
890-6297-8	B-47	Total/NA	Solid	8015B NM	74570
890-6297-9	B-48	Total/NA	Solid	8015B NM	74570
890-6297-10	B-49	Total/NA	Solid	8015B NM	74570
890-6297-11	B-50	Total/NA	Solid	8015B NM	74570
890-6297-12	B-51	Total/NA	Solid	8015B NM	74570
890-6297-13	B-52	Total/NA	Solid	8015B NM	74570
890-6297-14	B-53	Total/NA	Solid	8015B NM	74570
890-6297-15	B-54	Total/NA	Solid	8015B NM	74570
MB 880-74570/1-A	Method Blank	Total/NA	Solid	8015B NM	74570
LCS 880-74570/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74570

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

GC Semi VOA (Continued)

Analysis Batch: 74566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-74570/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74570
890-6297-1 MS	B-40	Total/NA	Solid	8015B NM	74570
890-6297-1 MSD	B-40	Total/NA	Solid	8015B NM	74570

Analysis Batch: 74568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-16	B-55	Total/NA	Solid	8015B NM	74579
890-6297-17	B-12	Total/NA	Solid	8015B NM	74579
890-6297-18	B-13	Total/NA	Solid	8015B NM	74579
890-6297-19	SW-1A	Total/NA	Solid	8015B NM	74579
890-6297-20	SW-2	Total/NA	Solid	8015B NM	74579
890-6297-21	SW-3	Total/NA	Solid	8015B NM	74579
890-6297-22	SW-4	Total/NA	Solid	8015B NM	74579
890-6297-23	SW-5	Total/NA	Solid	8015B NM	74579
890-6297-24	B-8	Total/NA	Solid	8015B NM	74579
890-6297-25	B-9	Total/NA	Solid	8015B NM	74579
890-6297-26	B-10	Total/NA	Solid	8015B NM	74579
890-6297-27	B-35	Total/NA	Solid	8015B NM	74579
890-6297-28	B-38	Total/NA	Solid	8015B NM	74579
890-6297-29	B-39	Total/NA	Solid	8015B NM	74579
MB 880-74579/1-A	Method Blank	Total/NA	Solid	8015B NM	74579
LCS 880-74579/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74579
LCSD 880-74579/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74579
890-6297-16 MS	B-55	Total/NA	Solid	8015B NM	74579
890-6297-16 MSD	B-55	Total/NA	Solid	8015B NM	74579

Prep Batch: 74570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-1	B-40	Total/NA	Solid	8015NM Prep	
890-6297-2	B-41	Total/NA	Solid	8015NM Prep	
890-6297-3	B-42	Total/NA	Solid	8015NM Prep	
890-6297-4	B-43	Total/NA	Solid	8015NM Prep	
890-6297-5	B-44	Total/NA	Solid	8015NM Prep	
890-6297-6	B-45	Total/NA	Solid	8015NM Prep	
890-6297-7	B-46	Total/NA	Solid	8015NM Prep	
890-6297-8	B-47	Total/NA	Solid	8015NM Prep	
890-6297-9	B-48	Total/NA	Solid	8015NM Prep	
890-6297-10	B-49	Total/NA	Solid	8015NM Prep	
890-6297-11	B-50	Total/NA	Solid	8015NM Prep	
890-6297-12	B-51	Total/NA	Solid	8015NM Prep	
890-6297-13	B-52	Total/NA	Solid	8015NM Prep	
890-6297-14	B-53	Total/NA	Solid	8015NM Prep	
890-6297-15	B-54	Total/NA	Solid	8015NM Prep	
MB 880-74570/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74570/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74570/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6297-1 MS	B-40	Total/NA	Solid	8015NM Prep	
890-6297-1 MSD	B-40	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

GC Semi VOA

Prep Batch: 74579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-16	B-55	Total/NA	Solid	8015NM Prep	
890-6297-17	B-12	Total/NA	Solid	8015NM Prep	
890-6297-18	B-13	Total/NA	Solid	8015NM Prep	
890-6297-19	SW-1A	Total/NA	Solid	8015NM Prep	
890-6297-20	SW-2	Total/NA	Solid	8015NM Prep	
890-6297-21	SW-3	Total/NA	Solid	8015NM Prep	
890-6297-22	SW-4	Total/NA	Solid	8015NM Prep	
890-6297-23	SW-5	Total/NA	Solid	8015NM Prep	
890-6297-24	B-8	Total/NA	Solid	8015NM Prep	
890-6297-25	B-9	Total/NA	Solid	8015NM Prep	
890-6297-26	B-10	Total/NA	Solid	8015NM Prep	
890-6297-27	B-35	Total/NA	Solid	8015NM Prep	
890-6297-28	B-38	Total/NA	Solid	8015NM Prep	
890-6297-29	B-39	Total/NA	Solid	8015NM Prep	
MB 880-74579/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74579/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74579/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6297-16 MS	B-55	Total/NA	Solid	8015NM Prep	
890-6297-16 MSD	B-55	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-1	B-40	Total/NA	Solid	8015 NM	
890-6297-2	B-41	Total/NA	Solid	8015 NM	
890-6297-3	B-42	Total/NA	Solid	8015 NM	
890-6297-4	B-43	Total/NA	Solid	8015 NM	
890-6297-5	B-44	Total/NA	Solid	8015 NM	
890-6297-6	B-45	Total/NA	Solid	8015 NM	
890-6297-7	B-46	Total/NA	Solid	8015 NM	
890-6297-8	B-47	Total/NA	Solid	8015 NM	
890-6297-9	B-48	Total/NA	Solid	8015 NM	
890-6297-10	B-49	Total/NA	Solid	8015 NM	
890-6297-11	B-50	Total/NA	Solid	8015 NM	
890-6297-12	B-51	Total/NA	Solid	8015 NM	
890-6297-13	B-52	Total/NA	Solid	8015 NM	
890-6297-14	B-53	Total/NA	Solid	8015 NM	
890-6297-15	B-54	Total/NA	Solid	8015 NM	
890-6297-16	B-55	Total/NA	Solid	8015 NM	
890-6297-17	B-12	Total/NA	Solid	8015 NM	
890-6297-18	B-13	Total/NA	Solid	8015 NM	
890-6297-19	SW-1A	Total/NA	Solid	8015 NM	
890-6297-20	SW-2	Total/NA	Solid	8015 NM	
890-6297-21	SW-3	Total/NA	Solid	8015 NM	
890-6297-22	SW-4	Total/NA	Solid	8015 NM	
890-6297-23	SW-5	Total/NA	Solid	8015 NM	
890-6297-24	B-8	Total/NA	Solid	8015 NM	
890-6297-25	B-9	Total/NA	Solid	8015 NM	
890-6297-26	B-10	Total/NA	Solid	8015 NM	
890-6297-27	B-35	Total/NA	Solid	8015 NM	
890-6297-28	B-38	Total/NA	Solid	8015 NM	
890-6297-29	B-39	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

HPLC/IC

Leach Batch: 74551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-1	B-40	Soluble	Solid	DI Leach	
890-6297-2	B-41	Soluble	Solid	DI Leach	
890-6297-3	B-42	Soluble	Solid	DI Leach	
890-6297-4	B-43	Soluble	Solid	DI Leach	
890-6297-5	B-44	Soluble	Solid	DI Leach	
890-6297-6	B-45	Soluble	Solid	DI Leach	
890-6297-7	B-46	Soluble	Solid	DI Leach	
890-6297-8	B-47	Soluble	Solid	DI Leach	
890-6297-9	B-48	Soluble	Solid	DI Leach	
890-6297-10	B-49	Soluble	Solid	DI Leach	
890-6297-11	B-50	Soluble	Solid	DI Leach	
890-6297-12	B-51	Soluble	Solid	DI Leach	
890-6297-13	B-52	Soluble	Solid	DI Leach	
890-6297-14	B-53	Soluble	Solid	DI Leach	
890-6297-15	B-54	Soluble	Solid	DI Leach	
890-6297-16	B-55	Soluble	Solid	DI Leach	
890-6297-17	B-12	Soluble	Solid	DI Leach	
890-6297-18	B-13	Soluble	Solid	DI Leach	
890-6297-19	SW-1A	Soluble	Solid	DI Leach	
890-6297-20	SW-2	Soluble	Solid	DI Leach	
MB 880-74551/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74551/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74551/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6297-1 MS	B-40	Soluble	Solid	DI Leach	
890-6297-1 MSD	B-40	Soluble	Solid	DI Leach	
890-6297-11 MS	B-50	Soluble	Solid	DI Leach	
890-6297-11 MSD	B-50	Soluble	Solid	DI Leach	

Leach Batch: 74552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-21	SW-3	Soluble	Solid	DI Leach	
890-6297-22	SW-4	Soluble	Solid	DI Leach	
890-6297-23	SW-5	Soluble	Solid	DI Leach	
890-6297-24	B-8	Soluble	Solid	DI Leach	
890-6297-25	B-9	Soluble	Solid	DI Leach	
890-6297-26	B-10	Soluble	Solid	DI Leach	
890-6297-27	B-35	Soluble	Solid	DI Leach	
890-6297-28	B-38	Soluble	Solid	DI Leach	
890-6297-29	B-39	Soluble	Solid	DI Leach	
MB 880-74552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6297-21 MS	SW-3	Soluble	Solid	DI Leach	
890-6297-21 MSD	SW-3	Soluble	Solid	DI Leach	

Analysis Batch: 74574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-1	B-40	Soluble	Solid	300.0	74551
890-6297-2	B-41	Soluble	Solid	300.0	74551
890-6297-3	B-42	Soluble	Solid	300.0	74551
890-6297-4	B-43	Soluble	Solid	300.0	74551

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

HPLC/IC (Continued)

Analysis Batch: 74574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-5	B-44	Soluble	Solid	300.0	74551
890-6297-6	B-45	Soluble	Solid	300.0	74551
890-6297-7	B-46	Soluble	Solid	300.0	74551
890-6297-8	B-47	Soluble	Solid	300.0	74551
890-6297-9	B-48	Soluble	Solid	300.0	74551
890-6297-10	B-49	Soluble	Solid	300.0	74551
890-6297-11	B-50	Soluble	Solid	300.0	74551
890-6297-12	B-51	Soluble	Solid	300.0	74551
890-6297-13	B-52	Soluble	Solid	300.0	74551
890-6297-14	B-53	Soluble	Solid	300.0	74551
890-6297-15	B-54	Soluble	Solid	300.0	74551
890-6297-16	B-55	Soluble	Solid	300.0	74551
890-6297-17	B-12	Soluble	Solid	300.0	74551
890-6297-18	B-13	Soluble	Solid	300.0	74551
890-6297-19	SW-1A	Soluble	Solid	300.0	74551
890-6297-20	SW-2	Soluble	Solid	300.0	74551
MB 880-74551/1-A	Method Blank	Soluble	Solid	300.0	74551
LCS 880-74551/2-A	Lab Control Sample	Soluble	Solid	300.0	74551
LCSD 880-74551/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74551
890-6297-1 MS	B-40	Soluble	Solid	300.0	74551
890-6297-1 MSD	B-40	Soluble	Solid	300.0	74551
890-6297-11 MS	B-50	Soluble	Solid	300.0	74551
890-6297-11 MSD	B-50	Soluble	Solid	300.0	74551

Analysis Batch: 74606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6297-21	SW-3	Soluble	Solid	300.0	74552
890-6297-22	SW-4	Soluble	Solid	300.0	74552
890-6297-23	SW-5	Soluble	Solid	300.0	74552
890-6297-24	B-8	Soluble	Solid	300.0	74552
890-6297-25	B-9	Soluble	Solid	300.0	74552
890-6297-26	B-10	Soluble	Solid	300.0	74552
890-6297-27	B-35	Soluble	Solid	300.0	74552
890-6297-28	B-38	Soluble	Solid	300.0	74552
890-6297-29	B-39	Soluble	Solid	300.0	74552
MB 880-74552/1-A	Method Blank	Soluble	Solid	300.0	74552
LCS 880-74552/2-A	Lab Control Sample	Soluble	Solid	300.0	74552
LCSD 880-74552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74552
890-6297-21 MS	SW-3	Soluble	Solid	300.0	74552
890-6297-21 MSD	SW-3	Soluble	Solid	300.0	74552

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-40
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 12:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 11:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 11:37	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 09:49	CH	EET MID

Client Sample ID: B-41
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 12:41	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 10:05	CH	EET MID

Client Sample ID: B-42
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 12:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 12:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 13:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 13:03	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 10:11	CH	EET MID

Client Sample ID: B-43
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 13:19	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-43

Lab Sample ID: 890-6297-4

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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			74732	03/04/24 13:25	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 13:25	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 10:16	CH	EET MID

Client Sample ID: B-44

Lab Sample ID: 890-6297-5

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 13:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 13:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 13:46	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 10:22	CH	EET MID

Client Sample ID: B-45

Lab Sample ID: 890-6297-6

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 14:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 14:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 14:08	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 10:39	CH	EET MID

Client Sample ID: B-46

Lab Sample ID: 890-6297-7

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 14:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 14:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 14:29	AJ	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-46

Lab Sample ID: 890-6297-7

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 10:44	CH	EET MID

Client Sample ID: B-47

Lab Sample ID: 890-6297-8

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 14:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 14:51	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 10:50	CH	EET MID

Client Sample ID: B-48

Lab Sample ID: 890-6297-9

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 15:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 15:13	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 10:55	CH	EET MID

Client Sample ID: B-49

Lab Sample ID: 890-6297-10

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74559	03/04/24 08:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74554	03/04/24 15:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 15:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 15:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 15:51	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 11:01	CH	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-50
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 11:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 11:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 16:35	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 11:06	CH	EET MID

Client Sample ID: B-51
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 12:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 16:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 16:56	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 11:23	CH	EET MID

Client Sample ID: B-52
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 17:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 17:17	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 11:28	CH	EET MID

Client Sample ID: B-53
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 12:44	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-53

Lab Sample ID: 890-6297-14

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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			74732	03/04/24 17:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 17:38	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 11:45	CH	EET MID

Client Sample ID: B-54

Lab Sample ID: 890-6297-15

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 13:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 17:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74570	03/04/24 09:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74566	03/04/24 17:59	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 11:50	CH	EET MID

Client Sample ID: B-55

Lab Sample ID: 890-6297-16

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 13:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 13:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 11:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 11:37	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 11:56	CH	EET MID

Client Sample ID: B-12

Lab Sample ID: 890-6297-17

Date Collected: 02/29/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 13:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 12:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 12:41	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-12
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 12:02	CH	EET MID

Client Sample ID: B-13
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 14:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 13:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 13:03	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 12:07	CH	EET MID

Client Sample ID: SW-1A
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 14:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 13:25	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 13:25	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 12:13	CH	EET MID

Client Sample ID: SW-2
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74560	03/04/24 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74557	03/04/24 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 13:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 13:46	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	74551	03/04/24 08:02	CH	EET MID
Soluble	Analysis	300.0		1			74574	03/04/24 12:18	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: SW-3
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74561	03/04/24 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74555	03/04/24 11:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 11:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 14:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 14:08	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 13:02	CH	EET MID

Client Sample ID: SW-4
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74561	03/04/24 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74555	03/04/24 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 11:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 14:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 14:29	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 13:19	CH	EET MID

Client Sample ID: SW-5
Date Collected: 02/29/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74561	03/04/24 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74555	03/04/24 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 12:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 14:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 14:51	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 13:24	CH	EET MID

Client Sample ID: B-8
Date Collected: 03/01/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74561	03/04/24 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74555	03/04/24 12:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 12:39	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-8

Lab Sample ID: 890-6297-24

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

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			74732	03/04/24 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 15:13	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 13:30	CH	EET MID

Client Sample ID: B-9

Lab Sample ID: 890-6297-25

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74561	03/04/24 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74555	03/04/24 12:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 12:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 15:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 15:51	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 13:36	CH	EET MID

Client Sample ID: B-10

Lab Sample ID: 890-6297-26

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74561	03/04/24 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74555	03/04/24 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 13:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 16:35	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 13:52	CH	EET MID

Client Sample ID: B-35

Lab Sample ID: 890-6297-27

Date Collected: 03/01/24 00:00

Matrix: Solid

Date Received: 03/01/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74561	03/04/24 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74555	03/04/24 13:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 16:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 16:56	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Client Sample ID: B-35
Date Collected: 03/01/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-27
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			5.05 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 13:58	CH	EET MID

Client Sample ID: B-38
Date Collected: 03/01/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74561	03/04/24 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74555	03/04/24 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 14:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 17:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 17:17	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 14:03	CH	EET MID

Client Sample ID: B-39
Date Collected: 03/01/24 00:00
Date Received: 03/01/24 10:40

Lab Sample ID: 890-6297-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74561	03/04/24 08:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74555	03/04/24 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74730	03/04/24 14:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			74732	03/04/24 17:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74579	03/04/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74568	03/04/24 17:38	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74552	03/04/24 08:04	CH	EET MID
Soluble	Analysis	300.0		1			74606	03/04/24 14:09	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: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6297-1
SDG: 30210275

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6297-1	B-40	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-2	B-41	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-3	B-42	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-4	B-43	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-5	B-44	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-6	B-45	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-7	B-46	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-8	B-47	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-9	B-48	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-10	B-49	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-11	B-50	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-12	B-51	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-13	B-52	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-14	B-53	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-15	B-54	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-16	B-55	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-17	B-12	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-18	B-13	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-19	SW-1A	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-20	SW-2	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-21	SW-3	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-22	SW-4	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-23	SW-5	Solid	02/29/24 00:00	03/01/24 10:40
890-6297-24	B-8	Solid	03/01/24 00:00	03/01/24 10:40
890-6297-25	B-9	Solid	03/01/24 00:00	03/01/24 10:40
890-6297-26	B-10	Solid	03/01/24 00:00	03/01/24 10:40
890-6297-27	B-35	Solid	03/01/24 00:00	03/01/24 10:40
890-6297-28	B-38	Solid	03/01/24 00:00	03/01/24 10:40
890-6297-29	B-39	Solid	03/01/24 00:00	03/01/24 10:40



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) 794-1286
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
 Little Rock, AR (501) 224-5060

Environment Testing

Work Order No: _____

Page 1 of 3

Project Manager: Sarah Johnson		Bill to: (if different)		Work Order Comments	
Company Name: Arcadis US Inc.		Company Name:		Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
Address: 1004 W. Big Springs Suite 300		Address:		State of Project:	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone: 931-436-0316		Email: Sarah.Johnson@Arcadis.com		Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name: SCB 23-14		Turn Around		ANALYSIS REQUEST		Preservative Codes	
Project Number: 30210275		☐ Routine ☒ Rush 24hr				None: NO DI Water: H ₂ O	
Project Location: Eddy County, NM		Due Date:				Cool: Cool MeOH: Me	
Sampler's Name: Heath Boyd		TAT starts the day received by the lab, if received by 4:30pm				HCL: HC HNO ₃	
PO #:						H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No		H ₃ PO ₄ : HP	
Samples Received Intact: Yes No		Thermometer ID: 111000				NaHSO ₄ : NABIS	
Cooler Custody Seals: Yes No		Correction Factor: 0.2				Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals: Yes No		Temperature Reading: 5.4				Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature: 5.1				NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	Sample Comments
B-40 4.5	S	2/29/24	1110	4.5'	Comp	1	300, 0.025FM, 280		
B-41 4.5			1115				8015 MOD-NM		
B-42 4.5			1120						
B-43 4.5			1125						
B-44 4.5			1130						
B-45 4.5			1135						
B-46 4.5			1140						
B-47 4.5			1340						
B-48 4.5			1345						
B-49 4.5			1350						

Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471	

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1 <i>[Signature]</i>	<i>[Signature]</i>	3/1/24 1040 ²			
3		4			
5		6			



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
 Little Rock, AR (501) 224-5080

Environment Testing

Work Order No:

Page 2 of 3

Project Manager:	Sarah Johnson		Bill to: (if different)	
Company Name:	Arcadis US Inc		Company Name:	
Address:	1004 N Big Springs Suite 300		Address:	
City, State ZIP:	Midland, TX 79701		City, State ZIP:	
Phone:	931-436-0316		Email:	Sarah.Johnson@Arcadis.com

Project Name:	SCB 23-14	Turn Around	☐ Routine ☒ Rush 24 hr	Pres. Code	
Project Number:	30210275	Due Date:			
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Heath Boyd	Temp Blank:	Yes No	Wet Ice:	Yes No
PO#:		Thermometer ID:		Correction Factor:	
SAMPLE RECEIPT		Yes No		Temperature Reading:	
Cooler Custody Seals:		Yes No		Corrected Temperature:	
Sample Custody Seals:		Yes No			
Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
B-50 4.5'	S	2/29/24	1355	4.5'	Comp	1	300.076FM-287			None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
B-51 4.5'			1400				8015 MOD-NM			
B-52 4.5'			1405				8021B			
B-53 4.5'			1410							
B-54 4.5'			1415							
B-55 4.5'			1420							
B-12 4.5'			1435							
B-13 4.5'			1440							
SW-1A 4.5'			1150							
SW-2 4.5'			1155							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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1		3/1/24 1046			
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Revised Date: 08/25/2020 Rev. 2020.2



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
 Little Rock, AR (501) 224-5060

Environment Testing

Work Order No: _____

Page 3 of 3

Project Manager: Sarah Johnson		Bill to: (if different)	
Company Name: Arcadis US Inc		Company Name:	
Address: 1004 N Big Springs Suite 300		Address:	
City, State ZIP: Midland, TX 79701		City, State ZIP:	
Phone: 931-436-0316		Email: Sarah.Johnson@Arcadis.com	

Project Name: SCB 23-14		Turn Around		Pres. Code	
Project Number: 30210275		☐ Routine ☒ Rush 24			
Project Location: Eddy County, NM		Due Date:			
Sampler's Name: Heather 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		Correction Factor:					
Sample Custody Seals:		Yes No		Temperature Reading:					
Total Containers:				Corrected Temperature:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
SW-3 4.5	S	2/29/24	1200	4.5'	Comp	1	X		None: NO	
SW-4 4.5	S	1	1425	4.5'	1	1	X		Cool: Cool	
SW-5 4.5	S	2	1430	4.5'	1	1	X		HCL-HC	
B-8 4.5	S	3/1/24	825	4.5'	Comp	1	X		H ₂ SO ₄ : H ₂	
B-9 4.5	S	1	830	4.5'	1	1	X		H ₃ PO ₄ : HP	
B-10 4.5	S	1	835	4.5'	1	1	X		NaHSO ₄ : NABIS	
B-35 4.5	S	1	840	4.5'	1	1	X		Na ₂ S ₂ O ₃ : NaSO ₃	
B-38 4.5	S	1	845	4.5'	1	1	X		Zn Acetate+NaOH: Zn	
B-39 4.5	S	2	850	4.5'	1	1	X		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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCILP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471	

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	3/1/24 1040			
3					
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Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6297-1

SDG Number: 30210275

Login Number: 6297

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6297-1
SDG Number: 30210275

Login Number: 6297
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/04/24 09:21 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

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JOB DESCRIPTION

scb 23-14
30210275

JOB NUMBER

890-6312-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Laboratory Job ID: 890-6312-1
SDG: 30210275

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: scb 23-14

Job ID: 890-6312-1

Job ID: 890-6312-1

Eurofins Carlsbad

Job Narrative
890-6312-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/5/2024 11:35 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 5.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-6 (890-6312-1), SW-7 (890-6312-2), SW-8 (890-6312-3), SW-9 (890-6312-4), SW-10 (890-6312-5), SW-11 (890-6312-6), SW-12 (890-6312-7), SW-13 (890-6312-8), SW-14 (890-6312-9), B-61 (890-6312-10), B-62 (890-6312-11), B-63 (890-6312-12), B-64 (890-6312-13), B-65 (890-6312-14), B-66 (890-6312-15), B-67 (890-6312-16) and B-68 (890-6312-17).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74842 and analytical batch 880-74854 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74838 and analytical batch 880-74861 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-6 (890-6312-1), SW-7 (890-6312-2), SW-10 (890-6312-5) and SW-12 (890-6312-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-61 (890-6312-10), B-62 (890-6312-11), B-63 (890-6312-12), B-64 (890-6312-13), B-66 (890-6312-15) and B-68 (890-6312-17). 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.

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-6

Lab Sample ID: 890-6312-1

Date Collected: 03/04/24 10:30

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:12	03/06/24 12:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:12	03/06/24 12:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:12	03/06/24 12:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/05/24 17:12	03/06/24 12:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:12	03/06/24 12:49	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/05/24 17:12	03/06/24 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/05/24 17:12	03/06/24 12:49	1
1,4-Difluorobenzene (Surr)	116		70 - 130	03/05/24 17:12	03/06/24 12:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/06/24 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/24 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/05/24 17:05	03/06/24 12:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/05/24 17:05	03/06/24 12:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/05/24 17:05	03/06/24 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	173	S1+	70 - 130	03/05/24 17:05	03/06/24 12:34	1
o-Terphenyl	156	S1+	70 - 130	03/05/24 17:05	03/06/24 12:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.5		4.98		mg/Kg			03/06/24 14:49	1

Client Sample ID: SW-7

Lab Sample ID: 890-6312-2

Date Collected: 03/04/24 10:35

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:12	03/06/24 13:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:12	03/06/24 13:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:12	03/06/24 13:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/05/24 17:12	03/06/24 13:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:12	03/06/24 13:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/05/24 17:12	03/06/24 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/05/24 17:12	03/06/24 13:09	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/05/24 17:12	03/06/24 13:09	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-7

Lab Sample ID: 890-6312-2

Date Collected: 03/04/24 10:35

Matrix: Solid

Date Received: 03/05/24 11:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/24 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/06/24 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/05/24 17:05	03/06/24 12:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/05/24 17:05	03/06/24 12:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/05/24 17:05	03/06/24 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				03/05/24 17:05	03/06/24 12:56	1
o-Terphenyl	120		70 - 130				03/05/24 17:05	03/06/24 12:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.7		5.00		mg/Kg			03/06/24 15:03	1

Client Sample ID: SW-8

Lab Sample ID: 890-6312-3

Date Collected: 03/04/24 10:40

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 13:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 13:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 13:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/05/24 17:12	03/06/24 13:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 13:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/05/24 17:12	03/06/24 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				03/05/24 17:12	03/06/24 13:30	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/05/24 17:12	03/06/24 13:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/24 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/24 13:17	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	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 13:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 13:17	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-8

Lab Sample ID: 890-6312-3

Date Collected: 03/04/24 10:40

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				03/05/24 17:05	03/06/24 13:17	1
o-Terphenyl	113		70 - 130				03/05/24 17:05	03/06/24 13:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.5		4.99		mg/Kg			03/06/24 15:07	1

Client Sample ID: SW-9

Lab Sample ID: 890-6312-4

Date Collected: 03/04/24 10:45

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:12	03/06/24 13:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:12	03/06/24 13:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:12	03/06/24 13:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/05/24 17:12	03/06/24 13:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:12	03/06/24 13:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/05/24 17:12	03/06/24 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				03/05/24 17:12	03/06/24 13:50	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/05/24 17:12	03/06/24 13:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/06/24 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/06/24 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/05/24 17:05	03/06/24 13:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/05/24 17:05	03/06/24 13:39	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/05/24 17:05	03/06/24 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				03/05/24 17:05	03/06/24 13:39	1
o-Terphenyl	114		70 - 130				03/05/24 17:05	03/06/24 13:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340		5.05		mg/Kg			03/06/24 15:12	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-10

Lab Sample ID: 890-6312-5

Date Collected: 03/04/24 10:50

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/05/24 17:12	03/06/24 14:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/05/24 17:12	03/06/24 14:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/05/24 17:12	03/06/24 14:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/05/24 17:12	03/06/24 14:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/05/24 17:12	03/06/24 14:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/05/24 17:12	03/06/24 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/05/24 17:12	03/06/24 14:11	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/05/24 17:12	03/06/24 14:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/06/24 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/06/24 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	<50.4	U	50.4		mg/Kg		03/05/24 17:05	03/06/24 14:00	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/05/24 17:05	03/06/24 14:00	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/05/24 17:05	03/06/24 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130	03/05/24 17:05	03/06/24 14:00	1
o-Terphenyl	137	S1+	70 - 130	03/05/24 17:05	03/06/24 14:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.97		mg/Kg			03/06/24 15:16	1

Client Sample ID: SW-11

Lab Sample ID: 890-6312-6

Date Collected: 03/04/24 10:55

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:12	03/06/24 14:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:12	03/06/24 14:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:12	03/06/24 14:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/05/24 17:12	03/06/24 14:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:12	03/06/24 14:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/05/24 17:12	03/06/24 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/05/24 17:12	03/06/24 14:31	1
1,4-Difluorobenzene (Surr)	114		70 - 130	03/05/24 17:12	03/06/24 14:31	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-11

Lab Sample ID: 890-6312-6

Date Collected: 03/04/24 10:55

Matrix: Solid

Date Received: 03/05/24 11:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/06/24 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			03/06/24 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	<50.3	U	50.3		mg/Kg		03/05/24 17:05	03/06/24 14:22	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		03/05/24 17:05	03/06/24 14:22	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		03/05/24 17:05	03/06/24 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				03/05/24 17:05	03/06/24 14:22	1
o-Terphenyl	111		70 - 130				03/05/24 17:05	03/06/24 14:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		4.95		mg/Kg			03/06/24 15:29	1

Client Sample ID: SW-12

Lab Sample ID: 890-6312-7

Date Collected: 03/04/24 11:00

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 14:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 14:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 14:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/05/24 17:12	03/06/24 14:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 14:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/05/24 17:12	03/06/24 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				03/05/24 17:12	03/06/24 14:52	1
1,4-Difluorobenzene (Surr)	111		70 - 130				03/05/24 17:12	03/06/24 14:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/24 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/06/24 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	<50.1	U	50.1		mg/Kg		03/05/24 17:05	03/06/24 14:44	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/05/24 17:05	03/06/24 14:44	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-12

Lab Sample ID: 890-6312-7

Date Collected: 03/04/24 11:00

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/05/24 17:05	03/06/24 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				03/05/24 17:05	03/06/24 14:44	1
o-Terphenyl	126		70 - 130				03/05/24 17:05	03/06/24 14:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	321		4.95		mg/Kg			03/06/24 15:34	1

Client Sample ID: SW-13

Lab Sample ID: 890-6312-8

Date Collected: 03/04/24 11:05

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:12	03/06/24 15:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:12	03/06/24 15:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:12	03/06/24 15:12	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/05/24 17:12	03/06/24 15:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:12	03/06/24 15:12	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/05/24 17:12	03/06/24 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				03/05/24 17:12	03/06/24 15:12	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/05/24 17:12	03/06/24 15:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/06/24 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/06/24 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/05/24 17:05	03/06/24 15:27	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/05/24 17:05	03/06/24 15:27	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/05/24 17:05	03/06/24 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				03/05/24 17:05	03/06/24 15:27	1
o-Terphenyl	113		70 - 130				03/05/24 17:05	03/06/24 15:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	271		4.99		mg/Kg			03/06/24 15:38	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-14

Lab Sample ID: 890-6312-9

Date Collected: 03/04/24 11:10

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 17:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 17:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 17:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/24 17:12	03/06/24 17:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 17:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/24 17:12	03/06/24 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	03/05/24 17:12	03/06/24 17:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/05/24 17:12	03/06/24 17:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/06/24 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/06/24 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/05/24 17:05	03/06/24 15:48	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/05/24 17:05	03/06/24 15:48	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/05/24 17:05	03/06/24 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	03/05/24 17:05	03/06/24 15:48	1
o-Terphenyl	115		70 - 130	03/05/24 17:05	03/06/24 15:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.7		5.04		mg/Kg			03/06/24 15:43	1

Client Sample ID: B-61

Lab Sample ID: 890-6312-10

Date Collected: 03/04/24 11:15

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:12	03/06/24 18:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:12	03/06/24 18:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:12	03/06/24 18:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/05/24 17:12	03/06/24 18:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:12	03/06/24 18:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/05/24 17:12	03/06/24 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/05/24 17:12	03/06/24 18:04	1
1,4-Difluorobenzene (Surr)	125		70 - 130	03/05/24 17:12	03/06/24 18:04	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: B-61

Lab Sample ID: 890-6312-10

Date Collected: 03/04/24 11:15

Matrix: Solid

Date Received: 03/05/24 11:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/24 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/24 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 16:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 16:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				03/05/24 17:05	03/06/24 16:10	1
o-Terphenyl	122		70 - 130				03/05/24 17:05	03/06/24 16:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		5.02		mg/Kg			03/06/24 15:47	1

Client Sample ID: B-62

Lab Sample ID: 890-6312-11

Date Collected: 03/04/24 11:20

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:03	03/06/24 15:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:03	03/06/24 15:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:03	03/06/24 15:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/05/24 17:03	03/06/24 15:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:03	03/06/24 15:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/05/24 17:03	03/06/24 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				03/05/24 17:03	03/06/24 15:59	1
1,4-Difluorobenzene (Surr)	83		70 - 130				03/05/24 17:03	03/06/24 15:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/06/24 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/06/24 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/05/24 17:05	03/06/24 16:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/05/24 17:05	03/06/24 16:32	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: B-62

Lab Sample ID: 890-6312-11

Date Collected: 03/04/24 11:20

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/05/24 17:05	03/06/24 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				03/05/24 17:05	03/06/24 16:32	1
o-Terphenyl	133	S1+	70 - 130				03/05/24 17:05	03/06/24 16:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.1		5.05		mg/Kg			03/06/24 15:52	1

Client Sample ID: B-63

Lab Sample ID: 890-6312-12

Date Collected: 03/04/24 11:25

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:03	03/06/24 16:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:03	03/06/24 16:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:03	03/06/24 16:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/05/24 17:03	03/06/24 16:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/05/24 17:03	03/06/24 16:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/05/24 17:03	03/06/24 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				03/05/24 17:03	03/06/24 16:19	1
1,4-Difluorobenzene (Surr)	80		70 - 130				03/05/24 17:03	03/06/24 16:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/24 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/06/24 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/05/24 17:05	03/06/24 17:03	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/05/24 17:05	03/06/24 17:03	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/05/24 17:05	03/06/24 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130				03/05/24 17:05	03/06/24 17:03	1
o-Terphenyl	139	S1+	70 - 130				03/05/24 17:05	03/06/24 17:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.8		4.98		mg/Kg			03/06/24 16:05	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: B-64

Lab Sample ID: 890-6312-13

Date Collected: 03/04/24 11:30

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 17:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 17:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 17:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/05/24 17:03	03/06/24 17:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 17:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/05/24 17:03	03/06/24 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	03/05/24 17:03	03/06/24 17:18	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/05/24 17:03	03/06/24 17:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/24 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	<50.4	U	50.4		mg/Kg			03/06/24 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	<50.4	U	50.4		mg/Kg		03/05/24 17:05	03/06/24 17:25	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/05/24 17:05	03/06/24 17:25	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/05/24 17:05	03/06/24 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130	03/05/24 17:05	03/06/24 17:25	1
o-Terphenyl	137	S1+	70 - 130	03/05/24 17:05	03/06/24 17:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.4		5.04		mg/Kg			03/06/24 16:09	1

Client Sample ID: B-65

Lab Sample ID: 890-6312-14

Date Collected: 03/04/24 11:35

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:03	03/06/24 17:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:03	03/06/24 17:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:03	03/06/24 17:39	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/05/24 17:03	03/06/24 17:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/05/24 17:03	03/06/24 17:39	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/05/24 17:03	03/06/24 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/05/24 17:03	03/06/24 17:39	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/05/24 17:03	03/06/24 17:39	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: B-65

Lab Sample ID: 890-6312-14

Date Collected: 03/04/24 11:35

Matrix: Solid

Date Received: 03/05/24 11:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/06/24 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/06/24 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/05/24 17:05	03/06/24 17:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/05/24 17:05	03/06/24 17:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/05/24 17:05	03/06/24 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/05/24 17:05	03/06/24 17:47	1
o-Terphenyl	88		70 - 130				03/05/24 17:05	03/06/24 17:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.3		5.02		mg/Kg			03/06/24 16:23	1

Client Sample ID: B-66

Lab Sample ID: 890-6312-15

Date Collected: 03/04/24 11:40

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/05/24 17:03	03/06/24 18:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/05/24 17:03	03/06/24 18:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/05/24 17:03	03/06/24 18:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/05/24 17:03	03/06/24 18:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/05/24 17:03	03/06/24 18:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/05/24 17:03	03/06/24 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				03/05/24 17:03	03/06/24 18:00	1
1,4-Difluorobenzene (Surr)	81		70 - 130				03/05/24 17:03	03/06/24 18:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/06/24 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/24 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 18:09	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: B-66

Lab Sample ID: 890-6312-15

Date Collected: 03/04/24 11:40

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				03/05/24 17:05	03/06/24 18:09	1
o-Terphenyl	132	S1+	70 - 130				03/05/24 17:05	03/06/24 18:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.9		4.98		mg/Kg			03/06/24 16:27	1

Client Sample ID: B-67

Lab Sample ID: 890-6312-16

Date Collected: 03/04/24 11:45

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:03	03/06/24 18:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:03	03/06/24 18:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:03	03/06/24 18:20	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/05/24 17:03	03/06/24 18:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/05/24 17:03	03/06/24 18:20	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/05/24 17:03	03/06/24 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				03/05/24 17:03	03/06/24 18:20	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/05/24 17:03	03/06/24 18:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/06/24 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/24 18:30	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	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 18:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 18:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/05/24 17:05	03/06/24 18:30	1
o-Terphenyl	108		70 - 130				03/05/24 17:05	03/06/24 18:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		4.99		mg/Kg			03/06/24 16:31	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: B-68

Lab Sample ID: 890-6312-17

Date Collected: 03/04/24 11:50

Matrix: Solid

Date Received: 03/05/24 11:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 18:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 18:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 18:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/05/24 17:03	03/06/24 18:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 18:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/05/24 17:03	03/06/24 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/05/24 17:03	03/06/24 18:41	1
1,4-Difluorobenzene (Surr)	75		70 - 130	03/05/24 17:03	03/06/24 18:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/24 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/06/24 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/05/24 17:05	03/06/24 18:52	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/05/24 17:05	03/06/24 18:52	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/05/24 17:05	03/06/24 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130	03/05/24 17:05	03/06/24 18:52	1
o-Terphenyl	132	S1+	70 - 130	03/05/24 17:05	03/06/24 18:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		4.96		mg/Kg			03/06/24 16:36	1

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
890-6312-1	SW-6	105	116				
890-6312-2	SW-7	112	107				
890-6312-3	SW-8	114	102				
890-6312-4	SW-9	111	99				
890-6312-5	SW-10	112	108				
890-6312-6	SW-11	116	114				
890-6312-7	SW-12	115	111				
890-6312-8	SW-13	118	109				
890-6312-9	SW-14	85	98				
890-6312-10	B-61	106	125				
890-6312-11	B-62	93	83				
890-6312-12	B-63	85	80				
890-6312-13	B-64	83	88				
890-6312-14	B-65	95	88				
890-6312-15	B-66	90	81				
890-6312-16	B-67	96	85				
890-6312-17	B-68	91	75				
LCS 880-74837/1-A	Lab Control Sample	89	112				
LCS 880-74842/1-A	Lab Control Sample	99	103				
LCSD 880-74837/2-A	Lab Control Sample Dup	105	114				
LCSD 880-74842/2-A	Lab Control Sample Dup	103	105				
MB 880-74837/5-A	Method Blank	74	92				
MB 880-74842/5-A	Method Blank	125	133 S1+				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
890-6312-1	SW-6	173 S1+	156 S1+				
890-6312-2	SW-7	133 S1+	120				
890-6312-3	SW-8	124	113				
890-6312-4	SW-9	126	114				
890-6312-5	SW-10	151 S1+	137 S1+				
890-6312-6	SW-11	122	111				
890-6312-7	SW-12	135 S1+	126				
890-6312-8	SW-13	126	113				
890-6312-9	SW-14	127	115				
890-6312-10	B-61	137 S1+	122				
890-6312-11	B-62	147 S1+	133 S1+				
890-6312-12	B-63	154 S1+	139 S1+				
890-6312-13	B-64	152 S1+	137 S1+				
890-6312-14	B-65	96	88				
890-6312-15	B-66	148 S1+	132 S1+				
890-6312-16	B-67	119	108				

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6312-17	B-68	147 S1+	132 S1+
LCS 880-74838/2-A	Lab Control Sample	108	117
LCSD 880-74838/3-A	Lab Control Sample Dup	103	102
MB 880-74838/1-A	Method Blank	38 S1-	29 S1-
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74837/5-A

Matrix: Solid

Analysis Batch: 74855

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/24 17:03	03/06/24 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	03/05/24 17:03	03/06/24 11:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/05/24 17:03	03/06/24 11:10	1

Lab Sample ID: LCS 880-74837/1-A

Matrix: Solid

Analysis Batch: 74855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09659		mg/Kg		97	70 - 130
Toluene	0.100	0.1017		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09500		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1858		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09111		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-74837/2-A

Matrix: Solid

Analysis Batch: 74855

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74837

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1036		mg/Kg		104	70 - 130	7	35
Toluene	0.100	0.1155		mg/Kg		115	70 - 130	13	35
Ethylbenzene	0.100	0.1208		mg/Kg		121	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.2401		mg/Kg		120	70 - 130	26	35
o-Xylene	0.100	0.1175		mg/Kg		118	70 - 130	25	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: MB 880-74842/5-A

Matrix: Solid

Analysis Batch: 74854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 11:39	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

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

Lab Sample ID: MB 880-74842/5-A

Matrix: Solid

Analysis Batch: 74854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/24 17:12	03/06/24 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/24 17:12	03/06/24 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	03/05/24 17:12	03/06/24 11:39	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130	03/05/24 17:12	03/06/24 11:39	1

Lab Sample ID: LCS 880-74842/1-A

Matrix: Solid

Analysis Batch: 74854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1260		mg/Kg		126	70 - 130
Toluene	0.100	0.1134		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1148		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2398		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1094		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-74842/2-A

Matrix: Solid

Analysis Batch: 74854

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74842

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1236		mg/Kg		124	70 - 130	2	35
Toluene	0.100	0.1170		mg/Kg		117	70 - 130	3	35
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2459		mg/Kg		123	70 - 130	3	35
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-74838/1-A

Matrix: Solid

Analysis Batch: 74861

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 08:13	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

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

Lab Sample ID: MB 880-74838/1-A

Matrix: Solid

Analysis Batch: 74861

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74838

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 08:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/05/24 17:05	03/06/24 08:13	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	38	S1-	70 - 130				03/05/24 17:05	03/06/24 08:13	1
o-Terphenyl	29	S1-	70 - 130				03/05/24 17:05	03/06/24 08:13	1

Lab Sample ID: LCS 880-74838/2-A

Matrix: Solid

Analysis Batch: 74861

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1117		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	960.8		mg/Kg		96	70 - 130		
Surrogate	LCS	LCS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	108		70 - 130						
o-Terphenyl	117		70 - 130						

Lab Sample ID: LCSD 880-74838/3-A

Matrix: Solid

Analysis Batch: 74861

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74838

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1053		mg/Kg		105	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	890.5		mg/Kg		89	70 - 130	8	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	103		70 - 130						
o-Terphenyl	102		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74881/1-A

Matrix: Solid

Analysis Batch: 74889

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			03/06/24 14:36	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-74881/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 74889											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	235.8		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-74881/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 74889											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	235.8		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-6312-1 MS				Client Sample ID: SW-6							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 74889											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	72.5		249	331.6		mg/Kg		104	90 - 110		

Lab Sample ID: 890-6312-1 MSD				Client Sample ID: SW-6							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 74889											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72.5		249	333.4		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-6312-11 MS				Client Sample ID: B-62							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 74889											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	68.1		253	315.2		mg/Kg		98	90 - 110		

Lab Sample ID: 890-6312-11 MSD				Client Sample ID: B-62							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 74889											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	68.1		253	316.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

GC VOA

Prep Batch: 74837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-11	B-62	Total/NA	Solid	5035	
890-6312-12	B-63	Total/NA	Solid	5035	
890-6312-13	B-64	Total/NA	Solid	5035	
890-6312-14	B-65	Total/NA	Solid	5035	
890-6312-15	B-66	Total/NA	Solid	5035	
890-6312-16	B-67	Total/NA	Solid	5035	
890-6312-17	B-68	Total/NA	Solid	5035	
MB 880-74837/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74837/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74837/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 74842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-1	SW-6	Total/NA	Solid	5035	
890-6312-2	SW-7	Total/NA	Solid	5035	
890-6312-3	SW-8	Total/NA	Solid	5035	
890-6312-4	SW-9	Total/NA	Solid	5035	
890-6312-5	SW-10	Total/NA	Solid	5035	
890-6312-6	SW-11	Total/NA	Solid	5035	
890-6312-7	SW-12	Total/NA	Solid	5035	
890-6312-8	SW-13	Total/NA	Solid	5035	
890-6312-9	SW-14	Total/NA	Solid	5035	
890-6312-10	B-61	Total/NA	Solid	5035	
MB 880-74842/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74842/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74842/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 74854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-1	SW-6	Total/NA	Solid	8021B	74842
890-6312-2	SW-7	Total/NA	Solid	8021B	74842
890-6312-3	SW-8	Total/NA	Solid	8021B	74842
890-6312-4	SW-9	Total/NA	Solid	8021B	74842
890-6312-5	SW-10	Total/NA	Solid	8021B	74842
890-6312-6	SW-11	Total/NA	Solid	8021B	74842
890-6312-7	SW-12	Total/NA	Solid	8021B	74842
890-6312-8	SW-13	Total/NA	Solid	8021B	74842
890-6312-9	SW-14	Total/NA	Solid	8021B	74842
890-6312-10	B-61	Total/NA	Solid	8021B	74842
MB 880-74842/5-A	Method Blank	Total/NA	Solid	8021B	74842
LCS 880-74842/1-A	Lab Control Sample	Total/NA	Solid	8021B	74842
LCSD 880-74842/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74842

Analysis Batch: 74855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-11	B-62	Total/NA	Solid	8021B	74837
890-6312-12	B-63	Total/NA	Solid	8021B	74837
890-6312-13	B-64	Total/NA	Solid	8021B	74837
890-6312-14	B-65	Total/NA	Solid	8021B	74837
890-6312-15	B-66	Total/NA	Solid	8021B	74837
890-6312-16	B-67	Total/NA	Solid	8021B	74837

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

GC VOA (Continued)

Analysis Batch: 74855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-17	B-68	Total/NA	Solid	8021B	74837
MB 880-74837/5-A	Method Blank	Total/NA	Solid	8021B	74837
LCS 880-74837/1-A	Lab Control Sample	Total/NA	Solid	8021B	74837
LCSD 880-74837/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74837

Analysis Batch: 74915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-1	SW-6	Total/NA	Solid	Total BTEX	
890-6312-2	SW-7	Total/NA	Solid	Total BTEX	
890-6312-3	SW-8	Total/NA	Solid	Total BTEX	
890-6312-4	SW-9	Total/NA	Solid	Total BTEX	
890-6312-5	SW-10	Total/NA	Solid	Total BTEX	
890-6312-6	SW-11	Total/NA	Solid	Total BTEX	
890-6312-7	SW-12	Total/NA	Solid	Total BTEX	
890-6312-8	SW-13	Total/NA	Solid	Total BTEX	
890-6312-9	SW-14	Total/NA	Solid	Total BTEX	
890-6312-10	B-61	Total/NA	Solid	Total BTEX	
890-6312-11	B-62	Total/NA	Solid	Total BTEX	
890-6312-12	B-63	Total/NA	Solid	Total BTEX	
890-6312-13	B-64	Total/NA	Solid	Total BTEX	
890-6312-14	B-65	Total/NA	Solid	Total BTEX	
890-6312-15	B-66	Total/NA	Solid	Total BTEX	
890-6312-16	B-67	Total/NA	Solid	Total BTEX	
890-6312-17	B-68	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 74838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-1	SW-6	Total/NA	Solid	8015NM Prep	
890-6312-2	SW-7	Total/NA	Solid	8015NM Prep	
890-6312-3	SW-8	Total/NA	Solid	8015NM Prep	
890-6312-4	SW-9	Total/NA	Solid	8015NM Prep	
890-6312-5	SW-10	Total/NA	Solid	8015NM Prep	
890-6312-6	SW-11	Total/NA	Solid	8015NM Prep	
890-6312-7	SW-12	Total/NA	Solid	8015NM Prep	
890-6312-8	SW-13	Total/NA	Solid	8015NM Prep	
890-6312-9	SW-14	Total/NA	Solid	8015NM Prep	
890-6312-10	B-61	Total/NA	Solid	8015NM Prep	
890-6312-11	B-62	Total/NA	Solid	8015NM Prep	
890-6312-12	B-63	Total/NA	Solid	8015NM Prep	
890-6312-13	B-64	Total/NA	Solid	8015NM Prep	
890-6312-14	B-65	Total/NA	Solid	8015NM Prep	
890-6312-15	B-66	Total/NA	Solid	8015NM Prep	
890-6312-16	B-67	Total/NA	Solid	8015NM Prep	
890-6312-17	B-68	Total/NA	Solid	8015NM Prep	
MB 880-74838/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74838/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

GC Semi VOA

Analysis Batch: 74861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-1	SW-6	Total/NA	Solid	8015B NM	74838
890-6312-2	SW-7	Total/NA	Solid	8015B NM	74838
890-6312-3	SW-8	Total/NA	Solid	8015B NM	74838
890-6312-4	SW-9	Total/NA	Solid	8015B NM	74838
890-6312-5	SW-10	Total/NA	Solid	8015B NM	74838
890-6312-6	SW-11	Total/NA	Solid	8015B NM	74838
890-6312-7	SW-12	Total/NA	Solid	8015B NM	74838
890-6312-8	SW-13	Total/NA	Solid	8015B NM	74838
890-6312-9	SW-14	Total/NA	Solid	8015B NM	74838
890-6312-10	B-61	Total/NA	Solid	8015B NM	74838
890-6312-11	B-62	Total/NA	Solid	8015B NM	74838
890-6312-12	B-63	Total/NA	Solid	8015B NM	74838
890-6312-13	B-64	Total/NA	Solid	8015B NM	74838
890-6312-14	B-65	Total/NA	Solid	8015B NM	74838
890-6312-15	B-66	Total/NA	Solid	8015B NM	74838
890-6312-16	B-67	Total/NA	Solid	8015B NM	74838
890-6312-17	B-68	Total/NA	Solid	8015B NM	74838
MB 880-74838/1-A	Method Blank	Total/NA	Solid	8015B NM	74838
LCS 880-74838/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74838
LCSD 880-74838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74838

Analysis Batch: 74943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-1	SW-6	Total/NA	Solid	8015 NM	
890-6312-2	SW-7	Total/NA	Solid	8015 NM	
890-6312-3	SW-8	Total/NA	Solid	8015 NM	
890-6312-4	SW-9	Total/NA	Solid	8015 NM	
890-6312-5	SW-10	Total/NA	Solid	8015 NM	
890-6312-6	SW-11	Total/NA	Solid	8015 NM	
890-6312-7	SW-12	Total/NA	Solid	8015 NM	
890-6312-8	SW-13	Total/NA	Solid	8015 NM	
890-6312-9	SW-14	Total/NA	Solid	8015 NM	
890-6312-10	B-61	Total/NA	Solid	8015 NM	
890-6312-11	B-62	Total/NA	Solid	8015 NM	
890-6312-12	B-63	Total/NA	Solid	8015 NM	
890-6312-13	B-64	Total/NA	Solid	8015 NM	
890-6312-14	B-65	Total/NA	Solid	8015 NM	
890-6312-15	B-66	Total/NA	Solid	8015 NM	
890-6312-16	B-67	Total/NA	Solid	8015 NM	
890-6312-17	B-68	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 74881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-1	SW-6	Soluble	Solid	DI Leach	
890-6312-2	SW-7	Soluble	Solid	DI Leach	
890-6312-3	SW-8	Soluble	Solid	DI Leach	
890-6312-4	SW-9	Soluble	Solid	DI Leach	
890-6312-5	SW-10	Soluble	Solid	DI Leach	
890-6312-6	SW-11	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

HPLC/IC (Continued)

Leach Batch: 74881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-7	SW-12	Soluble	Solid	DI Leach	
890-6312-8	SW-13	Soluble	Solid	DI Leach	
890-6312-9	SW-14	Soluble	Solid	DI Leach	
890-6312-10	B-61	Soluble	Solid	DI Leach	
890-6312-11	B-62	Soluble	Solid	DI Leach	
890-6312-12	B-63	Soluble	Solid	DI Leach	
890-6312-13	B-64	Soluble	Solid	DI Leach	
890-6312-14	B-65	Soluble	Solid	DI Leach	
890-6312-15	B-66	Soluble	Solid	DI Leach	
890-6312-16	B-67	Soluble	Solid	DI Leach	
890-6312-17	B-68	Soluble	Solid	DI Leach	
MB 880-74881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6312-1 MS	SW-6	Soluble	Solid	DI Leach	
890-6312-1 MSD	SW-6	Soluble	Solid	DI Leach	
890-6312-11 MS	B-62	Soluble	Solid	DI Leach	
890-6312-11 MSD	B-62	Soluble	Solid	DI Leach	

Analysis Batch: 74889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6312-1	SW-6	Soluble	Solid	300.0	74881
890-6312-2	SW-7	Soluble	Solid	300.0	74881
890-6312-3	SW-8	Soluble	Solid	300.0	74881
890-6312-4	SW-9	Soluble	Solid	300.0	74881
890-6312-5	SW-10	Soluble	Solid	300.0	74881
890-6312-6	SW-11	Soluble	Solid	300.0	74881
890-6312-7	SW-12	Soluble	Solid	300.0	74881
890-6312-8	SW-13	Soluble	Solid	300.0	74881
890-6312-9	SW-14	Soluble	Solid	300.0	74881
890-6312-10	B-61	Soluble	Solid	300.0	74881
890-6312-11	B-62	Soluble	Solid	300.0	74881
890-6312-12	B-63	Soluble	Solid	300.0	74881
890-6312-13	B-64	Soluble	Solid	300.0	74881
890-6312-14	B-65	Soluble	Solid	300.0	74881
890-6312-15	B-66	Soluble	Solid	300.0	74881
890-6312-16	B-67	Soluble	Solid	300.0	74881
890-6312-17	B-68	Soluble	Solid	300.0	74881
MB 880-74881/1-A	Method Blank	Soluble	Solid	300.0	74881
LCS 880-74881/2-A	Lab Control Sample	Soluble	Solid	300.0	74881
LCSD 880-74881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74881
890-6312-1 MS	SW-6	Soluble	Solid	300.0	74881
890-6312-1 MSD	SW-6	Soluble	Solid	300.0	74881
890-6312-11 MS	B-62	Soluble	Solid	300.0	74881
890-6312-11 MSD	B-62	Soluble	Solid	300.0	74881

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-6
Date Collected: 03/04/24 10:30
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 12:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 14:49	CH	EET MID

Client Sample ID: SW-7
Date Collected: 03/04/24 10:35
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 12:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:03	CH	EET MID

Client Sample ID: SW-8
Date Collected: 03/04/24 10:40
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 13:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 13:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 13:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:07	CH	EET MID

Client Sample ID: SW-9
Date Collected: 03/04/24 10:45
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 13:50	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-9
Date Collected: 03/04/24 10:45
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-4
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			74943	03/06/24 13:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 13:39	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:12	CH	EET MID

Client Sample ID: SW-10
Date Collected: 03/04/24 10:50
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 14:00	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:16	CH	EET MID

Client Sample ID: SW-11
Date Collected: 03/04/24 10:55
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 14:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 14:22	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:29	CH	EET MID

Client Sample ID: SW-12
Date Collected: 03/04/24 11:00
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 14:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 14:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 14:44	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: SW-12
Date Collected: 03/04/24 11:00
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-7
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			5.05 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:34	CH	EET MID

Client Sample ID: SW-13
Date Collected: 03/04/24 11:05
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 15:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 15:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 15:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:38	CH	EET MID

Client Sample ID: SW-14
Date Collected: 03/04/24 11:10
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 17:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 15:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 15:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:43	CH	EET MID

Client Sample ID: B-61
Date Collected: 03/04/24 11:15
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74842	03/05/24 17:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74854	03/06/24 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 18:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 16:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 16:10	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:47	CH	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: B-62
Date Collected: 03/04/24 11:20
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74837	03/05/24 17:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/06/24 15:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 15:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 16:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 16:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 15:52	CH	EET MID

Client Sample ID: B-63
Date Collected: 03/04/24 11:25
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74837	03/05/24 17:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/06/24 16:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 16:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 17:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 17:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 16:05	CH	EET MID

Client Sample ID: B-64
Date Collected: 03/04/24 11:30
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74837	03/05/24 17:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/06/24 17:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 17:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 17:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 17:25	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 16:09	CH	EET MID

Client Sample ID: B-65
Date Collected: 03/04/24 11:35
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74837	03/05/24 17:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/06/24 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 17:39	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: B-65
Date Collected: 03/04/24 11:35
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-14
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			74943	03/06/24 17:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 17:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 16:23	CH	EET MID

Client Sample ID: B-66
Date Collected: 03/04/24 11:40
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74837	03/05/24 17:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/06/24 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 18:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 18:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 18:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 16:27	CH	EET MID

Client Sample ID: B-67
Date Collected: 03/04/24 11:45
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74837	03/05/24 17:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/06/24 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 18:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 18:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 18:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 16:31	CH	EET MID

Client Sample ID: B-68
Date Collected: 03/04/24 11:50
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74837	03/05/24 17:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/06/24 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74915	03/06/24 18:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			74943	03/06/24 18:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74838	03/05/24 17:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74861	03/06/24 18:52	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Client Sample ID: B-68
Date Collected: 03/04/24 11:50
Date Received: 03/05/24 11:35

Lab Sample ID: 890-6312-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	74881	03/06/24 11:23	SA	EET MID
Soluble	Analysis	300.0		1			74889	03/06/24 16:36	CH	EET MID

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

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Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: scb 23-14

Job ID: 890-6312-1
SDG: 30210275

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6312-1	SW-6	Solid	03/04/24 10:30	03/05/24 11:35
890-6312-2	SW-7	Solid	03/04/24 10:35	03/05/24 11:35
890-6312-3	SW-8	Solid	03/04/24 10:40	03/05/24 11:35
890-6312-4	SW-9	Solid	03/04/24 10:45	03/05/24 11:35
890-6312-5	SW-10	Solid	03/04/24 10:50	03/05/24 11:35
890-6312-6	SW-11	Solid	03/04/24 10:55	03/05/24 11:35
890-6312-7	SW-12	Solid	03/04/24 11:00	03/05/24 11:35
890-6312-8	SW-13	Solid	03/04/24 11:05	03/05/24 11:35
890-6312-9	SW-14	Solid	03/04/24 11:10	03/05/24 11:35
890-6312-10	B-61	Solid	03/04/24 11:15	03/05/24 11:35
890-6312-11	B-62	Solid	03/04/24 11:20	03/05/24 11:35
890-6312-12	B-63	Solid	03/04/24 11:25	03/05/24 11:35
890-6312-13	B-64	Solid	03/04/24 11:30	03/05/24 11:35
890-6312-14	B-65	Solid	03/04/24 11:35	03/05/24 11:35
890-6312-15	B-66	Solid	03/04/24 11:40	03/05/24 11:35
890-6312-16	B-67	Solid	03/04/24 11:45	03/05/24 11:35
890-6312-17	B-68	Solid	03/04/24 11:50	03/05/24 11:35

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Environment Testing

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) 585-5443, Lubbock, TX (806) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5060

Chain of Custody

Work Order No.:

Page 1 of 2

Project Manager:	Sarah Johnson	Bill to: (if different)	
Company Name:	Arca'dis	Company Name:	
Address:	1004 W. Big Springs Suite 300	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	931-436-0316	Email:	Sarah.Johnson@Arca'dis.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:		SLB 23-14		Turn Around		Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number:		30210275		☐ Routine ☒ Rush		Z4				None: NO	
Project Location:		Eddy County, NM		Due Date:						Cool: Cool	
Sampler's Name:		Heath Boyd		TAT starts the day received by the lab, if received by 4:30pm						HCL: HC	
PO #:										H ₂ SO ₄ : H ₂	
SAMPLE RECEIPT		Temp Blank:		(Yes) No		Wet Ice:		(Yes) No		H ₃ PO ₄ : HP	
Samples Received Intact:		(Yes) No		Thermometer ID:				TW4007		NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes No		Correction Factor:				-0.2		Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes No		Temperature Reading:				6.0		Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:				5.8		NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	3a	80	200	Sample Comments
SW-6 2'	S	3/4/24	1030	2'	comp	1	X	X	X	
SW-7 4.5'			1035	4.5'		1	X	X	X	
SW-8 4.5'			1040			1	X	X	X	
SW-9 4.5'			1045			1	X	X	X	
SW-10 4.5'			1050			1	X	X	X	
SW-11 4.5'			1055			1	X	X	X	
SW-12 4.5'			1100			1	X	X	X	
SW-13 4.5'			1105			1	X	X	X	
SW-14 4.5'			1110			1	X	X	X	
B-61 4.5'	X	X	1115	X	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	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010:	8RCRA	Sb	As	Ba	Be	Cd <td>Cr <td>Co <td>Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td></td></td></td></td>	Cr <td>Co <td>Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td></td></td></td>	Co <td>Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td></td></td>	Cu <td>Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td></td>	Pb <td>Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td></td>	Mn <td>Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td></td>	Mo <td>Ni <td>Se <td>Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td></td>	Ni <td>Se <td>Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td></td>	Se <td>Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td></td>	Ag <td>Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td></td>	Ti <td>U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td>	U <td></td> <td>Hg: 1631 / 245.1 / 7470 / 7471</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		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 Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		3/5/24 1030	2		
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5			6		

Printed Date: 08/24/2020 Row: 2020

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Environment Testing

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
Little Rock, AR (501) 224-5060

Work Order No: _____

Page 2 of 2

Project Manager:	Sarah Johnson	Bill to: (if different)	
Company Name:	Arca's	Company Name:	
Address:	1004 W. Big Springs Suite 300	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	817-436-0316	Email:	Sarah.Johnson@Arca's.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:	SCB 23-14	Turn Around	☐ Routine ☒ Rush 24	Para. Code	
Project Number:	30210275	Due Date:			
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Hector Boyd				
PO #:					
SAMPLE RECEIPT					
Samples Received Intact:	Yes	No	Thermometer ID:	Yes	No
Cooler Custody Seals:	Yes	No	Correction Factor:	Yes	No
Sample Custody Seals:	Yes	No	Temperature Reading:	Yes	No
Total Containers:			Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters															
							300-ORGF-M-28D	8015 MOD-NM	8021B													
B-62 2'	S	3/4/24	1120	2'	Comp	1	X	X	X													
B-63 2'			1125			1	X	X	X													
B-64 2'			1130			1	X	X	X													
B-65 2'			1135			1	X	X	X													
B-66 2'			1140	X		1	X	X	X													
B-67 4.5'			1145	4.5'		1	X	X	X													
B-68 4.5'			1150	4.5'	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	Ti	Sn	U	V	Zn			
Circle Method(s) and Metal(s) to be analyzed		TC1P / SPLP 6010: 8RCRA		Sb		As	Ba	Be	B	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U													
		Hg: 1631 / 245.1 / 7470 / 7471																																

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3/5/24 1030			

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6312-1

SDG Number: 30210275

Login Number: 6312

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6312-1

SDG Number: 30210275

Login Number: 6312

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/06/24 11:01 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sarah Johnson
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 3/11/2024 6:50:46 PM

JOB DESCRIPTION

SCB 23 - 14
30210275

JOB NUMBER

890-6320-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
3/11/2024 6:50:46 PM

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

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Laboratory Job ID: 890-6320-1
SDG: 30210275

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: SCB 23 - 14

Job ID: 890-6320-1

Job ID: 890-6320-1

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Job Narrative
890-6320-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/5/2024 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW - 4A 4.5' (890-6320-1), SW - 5A 4.5' (890-6320-2), B - 1 4.5' (890-6320-3), B - 2 4.5' (890-6320-4), B - 3 4.5' (890-6320-5), B - 4 4.5' (890-6320-6), B - 5 4.5' (890-6320-7), B - 6 4.5' (890-6320-8), B - 16 4.5' (890-6320-9), B - 17 4.5' (890-6320-10), B - 18 4.5' (890-6320-11), B - 27 4.5' (890-6320-12), B - 28 4.5' (890-6320-13), B - 29 4.5' (890-6320-14), B - 30 4.5' (890-6320-15), B - 31 4.5' (890-6320-16), B - 32 4.5' (890-6320-17), B - 33 4.5' (890-6320-18), B - 34 4.5' (890-6320-19), B - 71 4.5' (890-6320-20), B - 72 4.5' (890-6320-21), B - 73 4.5' (890-6320-22), B - 74 4.5' (890-6320-23) and B - 75 4.5' (890-6320-24).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-74999 and analytical batch 880-75000 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The method blank for preparation batch 880-74995 and analytical batch 880-74981 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-74954 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. The associated sample is impacted: (CCV 880-74954/33).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-75057 and analytical batch 880-75049 was outside the upper control limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-75049 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour limit, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-75049/5).

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 880-74948 and analytical batch 880-75020 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.

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Case Narrative

Client: Arcadis U.S., Inc.
Project: SCB 23 - 14

Job ID: 890-6320-1

Job ID: 890-6320-1 (Continued)

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: SW - 4A 4.5'

Lab Sample ID: 890-6320-1

Date Collected: 03/05/24 11:30

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 16:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 16:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 16:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/24 16:29	03/07/24 16:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 16:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/24 16:29	03/07/24 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/06/24 16:29	03/07/24 16:19	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/06/24 16:29	03/07/24 16:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/24 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 20:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 20:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/07/24 16:21	03/07/24 20:55	1
o-Terphenyl	96		70 - 130	03/07/24 16:21	03/07/24 20:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		5.02		mg/Kg			03/07/24 15:08	1

Client Sample ID: SW - 5A 4.5'

Lab Sample ID: 890-6320-2

Date Collected: 03/05/24 11:35

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 16:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 16:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 16:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/24 16:29	03/07/24 16:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 16:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/24 16:29	03/07/24 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/06/24 16:29	03/07/24 16:40	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: SW - 5A 4.5'

Lab Sample ID: 890-6320-2

Date Collected: 03/05/24 11:35

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	03/06/24 16:29	03/07/24 16:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/07/24 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/07/24 22:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/07/24 22:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/07/24 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/07/24 16:21	03/07/24 22:00	1
o-Terphenyl	89		70 - 130				03/07/24 16:21	03/07/24 22:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		5.00		mg/Kg			03/07/24 15:21	1

Client Sample ID: B - 1 4.5'

Lab Sample ID: 890-6320-3

Date Collected: 03/05/24 11:40

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/24 16:29	03/07/24 17:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/24 16:29	03/07/24 17:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/24 16:29	03/07/24 17:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/24 16:29	03/07/24 17:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/24 16:29	03/07/24 17:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/24 16:29	03/07/24 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/06/24 16:29	03/07/24 17:00	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/06/24 16:29	03/07/24 17:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/24 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/24 22:21	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 1 4.5'

Lab Sample ID: 890-6320-3

Date Collected: 03/05/24 11:40

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 22:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 22:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				03/07/24 16:21	03/07/24 22:21	1
o-Terphenyl	110		70 - 130				03/07/24 16:21	03/07/24 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	662		5.01		mg/Kg			03/07/24 15:26	1

Client Sample ID: B - 2 4.5'

Lab Sample ID: 890-6320-4

Date Collected: 03/05/24 11:45

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 17:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 17:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 17:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/24 16:29	03/07/24 17:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 17:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/24 16:29	03/07/24 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				03/06/24 16:29	03/07/24 17:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130				03/06/24 16:29	03/07/24 17:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	979		49.9		mg/Kg			03/07/24 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 22:43	1
Diesel Range Organics (Over C10-C28)	979		49.9		mg/Kg		03/07/24 16:21	03/07/24 22:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/07/24 16:21	03/07/24 22:43	1
o-Terphenyl	89		70 - 130				03/07/24 16:21	03/07/24 22:43	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 2 4.5'

Lab Sample ID: 890-6320-4

Date Collected: 03/05/24 11:45

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		25.2		mg/Kg			03/07/24 15:30	5

Client Sample ID: B - 3 4.5'

Lab Sample ID: 890-6320-5

Date Collected: 03/05/24 11:50

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 17:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 17:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 17:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/24 16:29	03/07/24 17:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/24 16:29	03/07/24 17:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/24 16:29	03/07/24 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/06/24 16:29	03/07/24 17:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/06/24 16:29	03/07/24 17:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.7		49.9		mg/Kg			03/07/24 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 23:05	1
Diesel Range Organics (Over C10-C28)	61.7		49.9		mg/Kg		03/07/24 16:21	03/07/24 23:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/07/24 16:21	03/07/24 23:05	1
o-Terphenyl	92		70 - 130				03/07/24 16:21	03/07/24 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		5.04		mg/Kg			03/07/24 15:35	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 4 4.5'

Lab Sample ID: 890-6320-6

Date Collected: 03/05/24 11:55

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/24 16:29	03/07/24 18:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/24 16:29	03/07/24 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/06/24 16:29	03/07/24 18:02	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/06/24 16:29	03/07/24 18:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.2		50.0		mg/Kg			03/07/24 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	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/07/24 23:27	1
Diesel Range Organics (Over C10-C28)	56.2		50.0		mg/Kg		03/07/24 16:21	03/07/24 23:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/07/24 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	03/07/24 16:21	03/07/24 23:27	1
o-Terphenyl	90		70 - 130	03/07/24 16:21	03/07/24 23:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		4.97		mg/Kg			03/07/24 15:48	1

Client Sample ID: B - 5 4.5'

Lab Sample ID: 890-6320-7

Date Collected: 03/05/24 12:00

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/24 16:29	03/07/24 18:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/24 16:29	03/07/24 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/06/24 16:29	03/07/24 18:23	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 5 4.5'

Lab Sample ID: 890-6320-7

Date Collected: 03/05/24 12:00

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	03/06/24 16:29	03/07/24 18:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	189		49.9		mg/Kg			03/07/24 23:49	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	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 23:49	1
Diesel Range Organics (Over C10-C28)	189		49.9		mg/Kg		03/07/24 16:21	03/07/24 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/07/24 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/07/24 16:21	03/07/24 23:49	1
o-Terphenyl	90		70 - 130				03/07/24 16:21	03/07/24 23:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		24.8		mg/Kg			03/07/24 15:52	5

Client Sample ID: B - 6 4.5'

Lab Sample ID: 890-6320-8

Date Collected: 03/05/24 12:05

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/24 16:29	03/07/24 18:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/24 16:29	03/07/24 18:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/24 16:29	03/07/24 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/06/24 16:29	03/07/24 18:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/06/24 16:29	03/07/24 18:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/24 00:10	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 6 4.5'

Lab Sample ID: 890-6320-8

Date Collected: 03/05/24 12:05

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 00:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 00:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/07/24 16:21	03/08/24 00:10	1
o-Terphenyl	86		70 - 130				03/07/24 16:21	03/08/24 00:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	635		5.02		mg/Kg			03/07/24 15:57	1

Client Sample ID: B - 16 4.5'

Lab Sample ID: 890-6320-9

Date Collected: 03/05/24 12:10

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/24 16:29	03/07/24 19:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/24 16:29	03/07/24 19:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/24 16:29	03/07/24 19:04	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/24 16:29	03/07/24 19:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/24 16:29	03/07/24 19:04	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/24 16:29	03/07/24 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/06/24 16:29	03/07/24 19:04	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/06/24 16:29	03/07/24 19:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/24 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/24 00:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 00:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 00:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/07/24 16:21	03/08/24 00:32	1
o-Terphenyl	95		70 - 130				03/07/24 16:21	03/08/24 00:32	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 16 4.5'

Date Collected: 03/05/24 12:10

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

Lab Sample ID: 890-6320-9

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	741		5.03		mg/Kg			03/07/24 16:01	1

Client Sample ID: B - 17 4.5'

Date Collected: 03/05/24 12:15

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

Lab Sample ID: 890-6320-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 14:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 14:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 14:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/24 12:12	03/07/24 14:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 14:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/24 12:12	03/07/24 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				03/07/24 12:12	03/07/24 14:24	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/07/24 12:12	03/07/24 14:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/24 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 00:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 00:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				03/07/24 16:21	03/08/24 00:53	1
o-Terphenyl	87		70 - 130				03/07/24 16:21	03/08/24 00:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		5.01		mg/Kg			03/07/24 16:06	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 18 4.5'

Lab Sample ID: 890-6320-11

Date Collected: 03/05/24 13:40

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 14:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 14:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 14:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/24 12:12	03/07/24 14:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 14:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/24 12:12	03/07/24 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/07/24 12:12	03/07/24 14:45	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/07/24 12:12	03/07/24 14:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/24 01:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 01:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 01:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/07/24 16:21	03/08/24 01:37	1
o-Terphenyl	86		70 - 130	03/07/24 16:21	03/08/24 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.99		mg/Kg			03/07/24 16:10	1

Client Sample ID: B - 27 4.5'

Lab Sample ID: 890-6320-12

Date Collected: 03/05/24 13:45

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:12	03/07/24 15:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:12	03/07/24 15:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:12	03/07/24 15:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/07/24 12:12	03/07/24 15:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:12	03/07/24 15:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/24 12:12	03/07/24 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	03/07/24 12:12	03/07/24 15:05	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 27 4.5'

Lab Sample ID: 890-6320-12

Date Collected: 03/05/24 13:45

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	03/07/24 12:12	03/07/24 15:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/24 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	669		250		mg/Kg			03/08/24 01:59	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	<250	U	250		mg/Kg		03/07/24 16:21	03/08/24 01:59	5
Diesel Range Organics (Over C10-C28)	669		250		mg/Kg		03/07/24 16:21	03/08/24 01:59	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		03/07/24 16:21	03/08/24 01:59	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/07/24 16:21	03/08/24 01:59	5
o-Terphenyl	104		70 - 130				03/07/24 16:21	03/08/24 01:59	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	543		5.04		mg/Kg			03/07/24 16:23	1

Client Sample ID: B - 28 4.5'

Lab Sample ID: 890-6320-13

Date Collected: 03/05/24 13:50

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 15:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 15:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 15:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/24 12:12	03/07/24 15:26	1
o-Xylene	0.00312		0.00200		mg/Kg		03/07/24 12:12	03/07/24 15:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/24 12:12	03/07/24 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/07/24 12:12	03/07/24 15:26	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/07/24 12:12	03/07/24 15:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/24 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1440		250		mg/Kg			03/08/24 02:21	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 28 4.5'

Lab Sample ID: 890-6320-13

Date Collected: 03/05/24 13:50

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		03/07/24 16:21	03/08/24 02:21	5
Diesel Range Organics (Over C10-C28)	1440		250		mg/Kg		03/07/24 16:21	03/08/24 02:21	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		03/07/24 16:21	03/08/24 02:21	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/07/24 16:21	03/08/24 02:21	5
o-Terphenyl	86		70 - 130				03/07/24 16:21	03/08/24 02:21	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	642		4.98		mg/Kg			03/07/24 16:28	1

Client Sample ID: B - 29 4.5'

Lab Sample ID: 890-6320-14

Date Collected: 03/05/24 13:55

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 15:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:12	03/07/24 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 15:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:12	03/07/24 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				03/07/24 12:12	03/07/24 15:46	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/07/24 12:12	03/07/24 15:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/07/24 15:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/24 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 02:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 02:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				03/07/24 16:21	03/08/24 02:43	1
o-Terphenyl	89		70 - 130				03/07/24 16:21	03/08/24 02:43	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 29 4.5'

Lab Sample ID: 890-6320-14

Date Collected: 03/05/24 13:55

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		4.95		mg/Kg			03/07/24 16:41	1

Client Sample ID: B - 30 4.5'

Lab Sample ID: 890-6320-15

Date Collected: 03/05/24 14:00

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:12	03/07/24 16:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:12	03/07/24 16:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:12	03/07/24 16:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/24 12:12	03/07/24 16:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:12	03/07/24 16:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/24 12:12	03/07/24 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				03/07/24 12:12	03/07/24 16:07	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/07/24 12:12	03/07/24 16:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/07/24 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/24 03:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 03:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 03:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 03:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/07/24 16:21	03/08/24 03:05	1
o-Terphenyl	89		70 - 130				03/07/24 16:21	03/08/24 03:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		5.05		mg/Kg			03/07/24 16:46	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 31 4.5'

Lab Sample ID: 890-6320-16

Date Collected: 03/05/24 14:05

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 16:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 16:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 16:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/24 12:12	03/07/24 16:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 16:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/24 12:12	03/07/24 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	03/07/24 12:12	03/07/24 16:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/07/24 12:12	03/07/24 16:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	325		50.0		mg/Kg			03/08/24 03:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 03:27	1
Diesel Range Organics (Over C10-C28)	325		50.0		mg/Kg		03/07/24 16:21	03/08/24 03:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/07/24 16:21	03/08/24 03:27	1
o-Terphenyl	93		70 - 130	03/07/24 16:21	03/08/24 03:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	604		5.03		mg/Kg			03/07/24 16:50	1

Client Sample ID: B - 32 4.5'

Lab Sample ID: 890-6320-17

Date Collected: 03/05/24 14:10

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 16:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 16:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 16:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/24 12:12	03/07/24 16:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:12	03/07/24 16:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/24 12:12	03/07/24 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	03/07/24 12:12	03/07/24 16:48	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 32 4.5'

Lab Sample ID: 890-6320-17

Date Collected: 03/05/24 14:10

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	03/07/24 12:12	03/07/24 16:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	210		49.9		mg/Kg			03/08/24 03:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 03:48	1
Diesel Range Organics (Over C10-C28)	210		49.9		mg/Kg		03/07/24 16:21	03/08/24 03:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/07/24 16:21	03/08/24 03:48	1
o-Terphenyl	87		70 - 130				03/07/24 16:21	03/08/24 03:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220		25.0		mg/Kg			03/07/24 16:54	5

Client Sample ID: B - 33 4.5'

Lab Sample ID: 890-6320-18

Date Collected: 03/05/24 14:15

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 17:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 17:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 17:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/07/24 12:12	03/07/24 17:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 17:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/07/24 12:12	03/07/24 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	03/07/24 12:12	03/07/24 17:09	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/07/24 12:12	03/07/24 17:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/07/24 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	267		49.9		mg/Kg			03/08/24 04:10	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 33 4.5'

Lab Sample ID: 890-6320-18

Date Collected: 03/05/24 14:15

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 04:10	1
Diesel Range Organics (Over C10-C28)	267		49.9		mg/Kg		03/07/24 16:21	03/08/24 04:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/07/24 16:21	03/08/24 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/07/24 16:21	03/08/24 04:10	1
o-Terphenyl	85		70 - 130				03/07/24 16:21	03/08/24 04:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1690		25.0		mg/Kg			03/07/24 16:59	5

Client Sample ID: B - 34 4.5'

Lab Sample ID: 890-6320-19

Date Collected: 03/05/24 14:20

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 17:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 17:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 17:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/24 12:12	03/07/24 17:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 17:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/24 12:12	03/07/24 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				03/07/24 12:12	03/07/24 17:29	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/07/24 12:12	03/07/24 17:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	110		50.0		mg/Kg			03/08/24 04:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 04:32	1
Diesel Range Organics (Over C10-C28)	110		50.0		mg/Kg		03/07/24 16:21	03/08/24 04:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/07/24 16:21	03/08/24 04:32	1
o-Terphenyl	87		70 - 130				03/07/24 16:21	03/08/24 04:32	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 34 4.5'

Lab Sample ID: 890-6320-19

Date Collected: 03/05/24 14:20

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		5.02		mg/Kg			03/07/24 17:03	1

Client Sample ID: B - 71 4.5'

Lab Sample ID: 890-6320-20

Date Collected: 03/05/24 14:25

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 18:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 18:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 18:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:12	03/07/24 18:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 18:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:12	03/07/24 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				03/07/24 12:12	03/07/24 18:53	1
1,4-Difluorobenzene (Surr)	78		70 - 130				03/07/24 12:12	03/07/24 18:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/07/24 18:53	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		50.0		mg/Kg			03/08/24 04:54	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	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 04:54	1
Diesel Range Organics (Over C10-C28)	70.6		50.0		mg/Kg		03/07/24 16:21	03/08/24 04:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/08/24 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/07/24 16:21	03/08/24 04:54	1
o-Terphenyl	94		70 - 130				03/07/24 16:21	03/08/24 04:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270		25.2		mg/Kg			03/07/24 17:08	5

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 72 4.5'

Lab Sample ID: 890-6320-21

Date Collected: 03/05/24 14:30

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 18:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 18:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/07/24 18:01	1
m-Xylene & p-Xylene	<0.00396	U F1	0.00396		mg/Kg		03/07/24 12:23	03/07/24 18:01	1
o-Xylene	<0.00198	U F1	0.00198		mg/Kg		03/07/24 12:23	03/07/24 18:01	1
Xylenes, Total	<0.00396	U F1	0.00396		mg/Kg		03/07/24 12:23	03/07/24 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/07/24 12:23	03/07/24 18:01	1
1,4-Difluorobenzene (Surr)	77		70 - 130	03/07/24 12:23	03/07/24 18:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/07/24 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.1		50.1		mg/Kg			03/08/24 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/08/24 07:24	03/08/24 10:23	1
Diesel Range Organics (Over C10-C28)	85.1		50.1		mg/Kg		03/08/24 07:24	03/08/24 10:23	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/08/24 07:24	03/08/24 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	03/08/24 07:24	03/08/24 10:23	1
o-Terphenyl	113		70 - 130	03/08/24 07:24	03/08/24 10:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	850	F1	25.2		mg/Kg			03/07/24 15:29	5

Client Sample ID: B - 73 4.5'

Lab Sample ID: 890-6320-22

Date Collected: 03/05/24 14:35

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/07/24 18:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/07/24 18:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/07/24 18:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/24 12:23	03/07/24 18:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/07/24 18:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/24 12:23	03/07/24 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	03/07/24 12:23	03/07/24 18:28	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 73 4.5'

Lab Sample ID: 890-6320-22

Date Collected: 03/05/24 14:35

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	03/07/24 12:23	03/07/24 18:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/08/24 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/08/24 10:24	03/08/24 11:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/08/24 10:24	03/08/24 11:29	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/08/24 10:24	03/08/24 11:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/08/24 10:24	03/08/24 11:29	1
o-Terphenyl	82		70 - 130				03/08/24 10:24	03/08/24 11:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	271		4.97		mg/Kg			03/07/24 15:49	1

Client Sample ID: B - 74 4.5'

Lab Sample ID: 890-6320-23

Date Collected: 03/05/24 14:40

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:23	03/07/24 18:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:23	03/07/24 18:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:23	03/07/24 18:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/07/24 12:23	03/07/24 18:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:23	03/07/24 18:55	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/24 12:23	03/07/24 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	03/07/24 12:23	03/07/24 18:55	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/07/24 12:23	03/07/24 18:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/24 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/24 11:51	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 74 4.5'

Lab Sample ID: 890-6320-23

Date Collected: 03/05/24 14:40

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/24 10:24	03/08/24 11:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/24 10:24	03/08/24 11:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/24 10:24	03/08/24 11:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				03/08/24 10:24	03/08/24 11:51	1
o-Terphenyl	83		70 - 130				03/08/24 10:24	03/08/24 11:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	686		5.00		mg/Kg			03/07/24 15:55	1

Client Sample ID: B - 75 4.5'

Lab Sample ID: 890-6320-24

Date Collected: 03/05/24 14:45

Matrix: Solid

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/07/24 19:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/07/24 19:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/07/24 19:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/24 12:23	03/07/24 19:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/07/24 19:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/24 12:23	03/07/24 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				03/07/24 12:23	03/07/24 19:21	1
1,4-Difluorobenzene (Surr)	87		70 - 130				03/07/24 12:23	03/07/24 19:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/08/24 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/08/24 10:24	03/08/24 12:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/08/24 10:24	03/08/24 12:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/08/24 10:24	03/08/24 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				03/08/24 10:24	03/08/24 12:13	1
o-Terphenyl	100		70 - 130				03/08/24 10:24	03/08/24 12:13	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 75

4.5'

Lab Sample ID: 890-6320-24

Date Collected: 03/05/24 14:45

Date Received: 03/05/24 16:50

Sample Depth: 4.5'

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	713		5.05		mg/Kg			03/07/24 16:01	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID		BFB1	DFBZ1
			(70-130)	(70-130)
890-6320-1	SW - 4A 4.5'		114	102
890-6320-2	SW - 5A 4.5'		101	100
890-6320-3	B - 1 4.5'		105	103
890-6320-4	B - 2 4.5'		97	104
890-6320-5	B - 3 4.5'		110	105
890-6320-6	B - 4 4.5'		97	100
890-6320-7	B - 5 4.5'		112	102
890-6320-8	B - 6 4.5'		103	104
890-6320-9	B - 16 4.5'		100	100
890-6320-10	B - 17 4.5'		77	92
890-6320-10 MS	B - 17 4.5'		110	112
890-6320-10 MSD	B - 17 4.5'		106	114
890-6320-11	B - 18 4.5'		93	87
890-6320-12	B - 27 4.5'		77	90
890-6320-13	B - 28 4.5'		94	100
890-6320-14	B - 29 4.5'		93	89
890-6320-15	B - 30 4.5'		81	89
890-6320-16	B - 31 4.5'		77	91
890-6320-17	B - 32 4.5'		74	88
890-6320-18	B - 33 4.5'		77	88
890-6320-19	B - 34 4.5'		77	93
890-6320-20	B - 71 4.5'		86	78
890-6320-21	B - 72 4.5'		115	77
890-6320-21 MS	B - 72 4.5'		113	92
890-6320-21 MSD	B - 72 4.5'		125	84
890-6320-22	B - 73 4.5'		124	85
890-6320-23	B - 74 4.5'		123	88
890-6320-24	B - 75 4.5'		121	87
LCS 880-74704/1-A	Lab Control Sample		104	98
LCS 880-74995/1-A	Lab Control Sample		107	118
LCS 880-74999/1-A	Lab Control Sample		111	96
LCSD 880-74704/2-A	Lab Control Sample Dup		103	97
LCSD 880-74995/2-A	Lab Control Sample Dup		109	117
LCSD 880-74999/2-A	Lab Control Sample Dup		117	97
MB 880-74704/5-A	Method Blank		78	95
MB 880-74995/5-A	Method Blank		74	92
MB 880-74999/5-A	Method Blank		70	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID		1CO1	OTPH1
			(70-130)	(70-130)
890-6320-1	SW - 4A 4.5'		106	96
890-6320-1 MS	SW - 4A 4.5'		99	80

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

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

Matrix: Solid

Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID		1CO1 (70-130)	OTPH1 (70-130)
890-6320-1 MSD	SW - 4A 4.5'		99	82
890-6320-2	SW - 5A 4.5'		99	89
890-6320-3	B - 1 4.5'		122	110
890-6320-4	B - 2 4.5'		98	89
890-6320-5	B - 3 4.5'		104	92
890-6320-6	B - 4 4.5'		101	90
890-6320-7	B - 5 4.5'		100	90
890-6320-8	B - 6 4.5'		96	86
890-6320-9	B - 16 4.5'		103	95
890-6320-10	B - 17 4.5'		97	87
890-6320-11	B - 18 4.5'		97	86
890-6320-12	B - 27 4.5'		107	104
890-6320-13	B - 28 4.5'		94	86
890-6320-14	B - 29 4.5'		97	89
890-6320-15	B - 30 4.5'		99	89
890-6320-16	B - 31 4.5'		104	93
890-6320-17	B - 32 4.5'		96	87
890-6320-18	B - 33 4.5'		94	85
890-6320-19	B - 34 4.5'		96	87
890-6320-20	B - 71 4.5'		108	94
890-6320-21	B - 72 4.5'		126	113
890-6320-21 MS	B - 72 4.5'		107	87
890-6320-21 MSD	B - 72 4.5'		123	98
890-6320-22	B - 73 4.5'		93	82
890-6320-23	B - 74 4.5'		90	83
890-6320-24	B - 75 4.5'		111	100
LCS 880-75027/2-A	Lab Control Sample		84	71
LCS 880-75057/2-A	Lab Control Sample		107	120
LCSD 880-75027/3-A	Lab Control Sample Dup		84	72
LCSD 880-75057/3-A	Lab Control Sample Dup		104	109
MB 880-75027/1-A	Method Blank		102	95
MB 880-75057/1-A	Method Blank		133 S1+	126

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74704/5-A

Matrix: Solid

Analysis Batch: 75007

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 16:29	03/07/24 15:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	03/04/24 16:29	03/07/24 15:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/04/24 16:29	03/07/24 15:37	1

Lab Sample ID: LCS 880-74704/1-A

Matrix: Solid

Analysis Batch: 75007

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1186		mg/Kg		119	70 - 130
Toluene	0.100	0.1086		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1101		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2223		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-74704/2-A

Matrix: Solid

Analysis Batch: 75007

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74704

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1263		mg/Kg		126	70 - 130	6	35
Toluene	0.100	0.1146		mg/Kg		115	70 - 130	5	35
Ethylbenzene	0.100	0.1159		mg/Kg		116	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2331		mg/Kg		117	70 - 130	5	35
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-74995/5-A

Matrix: Solid

Analysis Batch: 74981

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 14:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 14:02	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

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

Lab Sample ID: MB 880-74995/5-A

Matrix: Solid

Analysis Batch: 74981

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 14:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:12	03/07/24 14:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 14:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:12	03/07/24 14:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	03/07/24 12:12	03/07/24 14:02	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/07/24 12:12	03/07/24 14:02	1

Lab Sample ID: LCS 880-74995/1-A

Matrix: Solid

Analysis Batch: 74981

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1031		mg/Kg		103	70 - 130
Toluene	0.100	0.1121		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1199		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2456		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1210		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: LCSD 880-74995/2-A

Matrix: Solid

Analysis Batch: 74981

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1018		mg/Kg		102	70 - 130	1	35
Toluene	0.100	0.1117		mg/Kg		112	70 - 130	0	35
Ethylbenzene	0.100	0.1167		mg/Kg		117	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2406		mg/Kg		120	70 - 130	2	35
o-Xylene	0.100	0.1185		mg/Kg		118	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 890-6320-10 MS

Matrix: Solid

Analysis Batch: 74981

Client Sample ID: B - 17 4.5'

Prep Type: Total/NA

Prep Batch: 74995

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0994	0.08963		mg/Kg		89	70 - 130
Toluene	<0.00199	U	0.0994	0.1060		mg/Kg		107	70 - 130
Ethylbenzene	<0.00199	U	0.0994	0.1144		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2270		mg/Kg		114	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

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

Lab Sample ID: 890-6320-10 MS

Matrix: Solid

Analysis Batch: 74981

Client Sample ID: B - 17 4.5'

Prep Type: Total/NA

Prep Batch: 74995

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00199	U	0.0994	0.1101		mg/Kg		111	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	112		70 - 130						

Lab Sample ID: 890-6320-10 MSD

Matrix: Solid

Analysis Batch: 74981

Client Sample ID: B - 17 4.5'

Prep Type: Total/NA

Prep Batch: 74995

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.08192		mg/Kg		80	70 - 130	9	35
Toluene	<0.00199	U	0.101	0.09321		mg/Kg		92	70 - 130	13	35
Ethylbenzene	<0.00199	U	0.101	0.09937		mg/Kg		99	70 - 130	14	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2005		mg/Kg		99	70 - 130	12	35
o-Xylene	<0.00199	U	0.101	0.09821		mg/Kg		97	70 - 130	11	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								
1,4-Difluorobenzene (Surr)	114		70 - 130								

Lab Sample ID: MB 880-74999/5-A

Matrix: Solid

Analysis Batch: 75000

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	70		70 - 130						
1,4-Difluorobenzene (Surr)	88		70 - 130						

Lab Sample ID: LCS 880-74999/1-A

Matrix: Solid

Analysis Batch: 75000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1195		mg/Kg		120	70 - 130
Toluene	0.100	0.1154		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1241		mg/Kg		124	70 - 130
m-Xylene & p-Xylene	0.200	0.2496		mg/Kg		125	70 - 130
o-Xylene	0.100	0.1221		mg/Kg		122	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

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

Lab Sample ID: LCS 880-74999/1-A

Matrix: Solid

Analysis Batch: 75000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74999

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-74999/2-A

Matrix: Solid

Analysis Batch: 75000

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74999

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1178		mg/Kg		118	70 - 130	1	35
Toluene	0.100	0.1185		mg/Kg		119	70 - 130	3	35
Ethylbenzene	0.100	0.1248		mg/Kg		125	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2500		mg/Kg		125	70 - 130	0	35
o-Xylene	0.100	0.1231		mg/Kg		123	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-6320-21 MS

Matrix: Solid

Analysis Batch: 75000

Client Sample ID: B - 72 4.5'

Prep Type: Total/NA

Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.101	0.1097		mg/Kg		109	70 - 130
Toluene	<0.00198	U	0.101	0.1128		mg/Kg		112	70 - 130
Ethylbenzene	<0.00198	U	0.101	0.1208		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.2435		mg/Kg		121	70 - 130
o-Xylene	<0.00198	U F1	0.101	0.1212		mg/Kg		120	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-6320-21 MSD

Matrix: Solid

Analysis Batch: 75000

Client Sample ID: B - 72 4.5'

Prep Type: Total/NA

Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1252		mg/Kg		125	70 - 130	13	35
Toluene	<0.00198	U	0.0998	0.1197		mg/Kg		120	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.0998	0.1290		mg/Kg		129	70 - 130	7	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.2605	F1	mg/Kg		131	70 - 130	7	35
o-Xylene	<0.00198	U F1	0.0998	0.1316	F1	mg/Kg		132	70 - 130	8	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

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

Lab Sample ID: MB 880-75027/1-A

Matrix: Solid

Analysis Batch: 74954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/07/24 19:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/07/24 19:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/07/24 16:21	03/07/24 19:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/07/24 16:21	03/07/24 19:50	1
o-Terphenyl	95		70 - 130	03/07/24 16:21	03/07/24 19:50	1

Lab Sample ID: LCS 880-75027/2-A

Matrix: Solid

Analysis Batch: 74954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1200		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1019		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: LCSD 880-75027/3-A

Matrix: Solid

Analysis Batch: 74954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	998.2		mg/Kg		100	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	1031		mg/Kg		103	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-6320-1 MS

Matrix: Solid

Analysis Batch: 74954

Client Sample ID: SW - 4A 4.5'

Prep Type: Total/NA

Prep Batch: 75027

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	926.6		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1032		mg/Kg		101	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

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

Lab Sample ID: 890-6320-1 MS

Matrix: Solid

Analysis Batch: 74954

Client Sample ID: SW - 4A 4.5'

Prep Type: Total/NA

Prep Batch: 75027

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 890-6320-1 MSD

Matrix: Solid

Analysis Batch: 74954

Client Sample ID: SW - 4A 4.5'

Prep Type: Total/NA

Prep Batch: 75027

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	913.0		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1058		mg/Kg		103	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: MB 880-75057/1-A

Matrix: Solid

Analysis Batch: 75049

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/24 07:24	03/08/24 07:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/24 07:24	03/08/24 07:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/24 07:24	03/08/24 07:53	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	133	S1+	70 - 130	03/08/24 07:24	03/08/24 07:53	1
o-Terphenyl	126		70 - 130	03/08/24 07:24	03/08/24 07:53	1

Lab Sample ID: LCS 880-75057/2-A

Matrix: Solid

Analysis Batch: 75049

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1079		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	972.3		mg/Kg		97	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	120		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

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

Lab Sample ID: LCSD 880-75057/3-A

Matrix: Solid

Analysis Batch: 75049

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75057

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1029		mg/Kg		103	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	926.7		mg/Kg		93	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: 890-6320-21 MS

Matrix: Solid

Analysis Batch: 75049

Client Sample ID: B - 72 4.5'

Prep Type: Total/NA

Prep Batch: 75057

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	991.5		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	85.1		1010	1080		mg/Kg		99	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: 890-6320-21 MSD

Matrix: Solid

Analysis Batch: 75049

Client Sample ID: B - 72 4.5'

Prep Type: Total/NA

Prep Batch: 75057

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1096		mg/Kg		109	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	85.1		1010	1268		mg/Kg		117	70 - 130	16	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	123		70 - 130								
o-Terphenyl	98		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74947/1-A

Matrix: Solid

Analysis Batch: 75018

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/07/24 14:55	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-74947/2-A

Matrix: Solid

Analysis Batch: 75018

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.4		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-74947/3-A

Matrix: Solid

Analysis Batch: 75018

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.7		mg/Kg		103	90 - 110	7	20

Lab Sample ID: 890-6320-1 MS

Matrix: Solid

Analysis Batch: 75018

Client Sample ID: SW - 4A 4.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	350		251	579.3		mg/Kg		91	90 - 110

Lab Sample ID: 890-6320-1 MSD

Matrix: Solid

Analysis Batch: 75018

Client Sample ID: SW - 4A 4.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	350		251	600.6		mg/Kg		100	90 - 110	4	20

Lab Sample ID: 890-6320-11 MS

Matrix: Solid

Analysis Batch: 75018

Client Sample ID: B - 18 4.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	162		250	415.0		mg/Kg		101	90 - 110

Lab Sample ID: 890-6320-11 MSD

Matrix: Solid

Analysis Batch: 75018

Client Sample ID: B - 18 4.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	162		250	416.4		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-74948/1-A

Matrix: Solid

Analysis Batch: 75020

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/07/24 15:07	1

Lab Sample ID: LCS 880-74948/2-A

Matrix: Solid

Analysis Batch: 75020

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	229.4		mg/Kg		92	90 - 110

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-74948/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 75020											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.6		mg/Kg		95	90 - 110	3	20

Lab Sample ID: 890-6320-21 MS				Client Sample ID: B - 72 4.5'							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 75020											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	850	F1	1260	2074		mg/Kg		97	90 - 110		

Lab Sample ID: 890-6320-21 MSD				Client Sample ID: B - 72 4.5'							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 75020											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	850	F1	1260	1964	F1	mg/Kg		88	90 - 110	5	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

GC VOA

Prep Batch: 74704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-1	SW - 4A 4.5'	Total/NA	Solid	5035	
890-6320-2	SW - 5A 4.5'	Total/NA	Solid	5035	
890-6320-3	B - 1 4.5'	Total/NA	Solid	5035	
890-6320-4	B - 2 4.5'	Total/NA	Solid	5035	
890-6320-5	B - 3 4.5'	Total/NA	Solid	5035	
890-6320-6	B - 4 4.5'	Total/NA	Solid	5035	
890-6320-7	B - 5 4.5'	Total/NA	Solid	5035	
890-6320-8	B - 6 4.5'	Total/NA	Solid	5035	
890-6320-9	B - 16 4.5'	Total/NA	Solid	5035	
MB 880-74704/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74704/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74704/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 74981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-10	B - 17 4.5'	Total/NA	Solid	8021B	74995
890-6320-11	B - 18 4.5'	Total/NA	Solid	8021B	74995
890-6320-12	B - 27 4.5'	Total/NA	Solid	8021B	74995
890-6320-13	B - 28 4.5'	Total/NA	Solid	8021B	74995
890-6320-14	B - 29 4.5'	Total/NA	Solid	8021B	74995
890-6320-15	B - 30 4.5'	Total/NA	Solid	8021B	74995
890-6320-16	B - 31 4.5'	Total/NA	Solid	8021B	74995
890-6320-17	B - 32 4.5'	Total/NA	Solid	8021B	74995
890-6320-18	B - 33 4.5'	Total/NA	Solid	8021B	74995
890-6320-19	B - 34 4.5'	Total/NA	Solid	8021B	74995
890-6320-20	B - 71 4.5'	Total/NA	Solid	8021B	74995
MB 880-74995/5-A	Method Blank	Total/NA	Solid	8021B	74995
LCS 880-74995/1-A	Lab Control Sample	Total/NA	Solid	8021B	74995
LCSD 880-74995/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74995
890-6320-10 MS	B - 17 4.5'	Total/NA	Solid	8021B	74995
890-6320-10 MSD	B - 17 4.5'	Total/NA	Solid	8021B	74995

Prep Batch: 74995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-10	B - 17 4.5'	Total/NA	Solid	5035	
890-6320-11	B - 18 4.5'	Total/NA	Solid	5035	
890-6320-12	B - 27 4.5'	Total/NA	Solid	5035	
890-6320-13	B - 28 4.5'	Total/NA	Solid	5035	
890-6320-14	B - 29 4.5'	Total/NA	Solid	5035	
890-6320-15	B - 30 4.5'	Total/NA	Solid	5035	
890-6320-16	B - 31 4.5'	Total/NA	Solid	5035	
890-6320-17	B - 32 4.5'	Total/NA	Solid	5035	
890-6320-18	B - 33 4.5'	Total/NA	Solid	5035	
890-6320-19	B - 34 4.5'	Total/NA	Solid	5035	
890-6320-20	B - 71 4.5'	Total/NA	Solid	5035	
MB 880-74995/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74995/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74995/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6320-10 MS	B - 17 4.5'	Total/NA	Solid	5035	
890-6320-10 MSD	B - 17 4.5'	Total/NA	Solid	5035	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

GC VOA

Prep Batch: 74999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-21	B - 72 4.5'	Total/NA	Solid	5035	
890-6320-22	B - 73 4.5'	Total/NA	Solid	5035	
890-6320-23	B - 74 4.5'	Total/NA	Solid	5035	
890-6320-24	B - 75 4.5'	Total/NA	Solid	5035	
MB 880-74999/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74999/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74999/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6320-21 MS	B - 72 4.5'	Total/NA	Solid	5035	
890-6320-21 MSD	B - 72 4.5'	Total/NA	Solid	5035	

Analysis Batch: 75000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-21	B - 72 4.5'	Total/NA	Solid	8021B	74999
890-6320-22	B - 73 4.5'	Total/NA	Solid	8021B	74999
890-6320-23	B - 74 4.5'	Total/NA	Solid	8021B	74999
890-6320-24	B - 75 4.5'	Total/NA	Solid	8021B	74999
MB 880-74999/5-A	Method Blank	Total/NA	Solid	8021B	74999
LCS 880-74999/1-A	Lab Control Sample	Total/NA	Solid	8021B	74999
LCSD 880-74999/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74999
890-6320-21 MS	B - 72 4.5'	Total/NA	Solid	8021B	74999
890-6320-21 MSD	B - 72 4.5'	Total/NA	Solid	8021B	74999

Analysis Batch: 75007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-1	SW - 4A 4.5'	Total/NA	Solid	8021B	74704
890-6320-2	SW - 5A 4.5'	Total/NA	Solid	8021B	74704
890-6320-3	B - 1 4.5'	Total/NA	Solid	8021B	74704
890-6320-4	B - 2 4.5'	Total/NA	Solid	8021B	74704
890-6320-5	B - 3 4.5'	Total/NA	Solid	8021B	74704
890-6320-6	B - 4 4.5'	Total/NA	Solid	8021B	74704
890-6320-7	B - 5 4.5'	Total/NA	Solid	8021B	74704
890-6320-8	B - 6 4.5'	Total/NA	Solid	8021B	74704
890-6320-9	B - 16 4.5'	Total/NA	Solid	8021B	74704
MB 880-74704/5-A	Method Blank	Total/NA	Solid	8021B	74704
LCS 880-74704/1-A	Lab Control Sample	Total/NA	Solid	8021B	74704
LCSD 880-74704/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74704

Analysis Batch: 75061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-1	SW - 4A 4.5'	Total/NA	Solid	Total BTEX	
890-6320-2	SW - 5A 4.5'	Total/NA	Solid	Total BTEX	
890-6320-3	B - 1 4.5'	Total/NA	Solid	Total BTEX	
890-6320-4	B - 2 4.5'	Total/NA	Solid	Total BTEX	
890-6320-5	B - 3 4.5'	Total/NA	Solid	Total BTEX	
890-6320-6	B - 4 4.5'	Total/NA	Solid	Total BTEX	
890-6320-7	B - 5 4.5'	Total/NA	Solid	Total BTEX	
890-6320-8	B - 6 4.5'	Total/NA	Solid	Total BTEX	
890-6320-9	B - 16 4.5'	Total/NA	Solid	Total BTEX	
890-6320-10	B - 17 4.5'	Total/NA	Solid	Total BTEX	
890-6320-11	B - 18 4.5'	Total/NA	Solid	Total BTEX	
890-6320-12	B - 27 4.5'	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

GC VOA (Continued)

Analysis Batch: 75061 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-13	B - 28 4.5'	Total/NA	Solid	Total BTEX	
890-6320-14	B - 29 4.5'	Total/NA	Solid	Total BTEX	
890-6320-15	B - 30 4.5'	Total/NA	Solid	Total BTEX	
890-6320-16	B - 31 4.5'	Total/NA	Solid	Total BTEX	
890-6320-17	B - 32 4.5'	Total/NA	Solid	Total BTEX	
890-6320-18	B - 33 4.5'	Total/NA	Solid	Total BTEX	
890-6320-19	B - 34 4.5'	Total/NA	Solid	Total BTEX	
890-6320-20	B - 71 4.5'	Total/NA	Solid	Total BTEX	
890-6320-21	B - 72 4.5'	Total/NA	Solid	Total BTEX	
890-6320-22	B - 73 4.5'	Total/NA	Solid	Total BTEX	
890-6320-23	B - 74 4.5'	Total/NA	Solid	Total BTEX	
890-6320-24	B - 75 4.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 74954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-1	SW - 4A 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-2	SW - 5A 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-3	B - 1 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-4	B - 2 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-5	B - 3 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-6	B - 4 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-7	B - 5 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-8	B - 6 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-9	B - 16 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-10	B - 17 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-11	B - 18 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-12	B - 27 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-13	B - 28 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-14	B - 29 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-15	B - 30 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-16	B - 31 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-17	B - 32 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-18	B - 33 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-19	B - 34 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-20	B - 71 4.5'	Total/NA	Solid	8015B NM	75027
MB 880-75027/1-A	Method Blank	Total/NA	Solid	8015B NM	75027
LCS 880-75027/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75027
LCSD 880-75027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75027
890-6320-1 MS	SW - 4A 4.5'	Total/NA	Solid	8015B NM	75027
890-6320-1 MSD	SW - 4A 4.5'	Total/NA	Solid	8015B NM	75027

Prep Batch: 75027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-1	SW - 4A 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-2	SW - 5A 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-3	B - 1 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-4	B - 2 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-5	B - 3 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-6	B - 4 4.5'	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

GC Semi VOA (Continued)

Prep Batch: 75027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-7	B - 5 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-8	B - 6 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-9	B - 16 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-10	B - 17 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-11	B - 18 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-12	B - 27 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-13	B - 28 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-14	B - 29 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-15	B - 30 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-16	B - 31 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-17	B - 32 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-18	B - 33 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-19	B - 34 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-20	B - 71 4.5'	Total/NA	Solid	8015NM Prep	
MB 880-75027/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75027/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6320-1 MS	SW - 4A 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-1 MSD	SW - 4A 4.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 75049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-21	B - 72 4.5'	Total/NA	Solid	8015B NM	75057
890-6320-22	B - 73 4.5'	Total/NA	Solid	8015B NM	75057
890-6320-23	B - 74 4.5'	Total/NA	Solid	8015B NM	75057
890-6320-24	B - 75 4.5'	Total/NA	Solid	8015B NM	75057
MB 880-75057/1-A	Method Blank	Total/NA	Solid	8015B NM	75057
LCS 880-75057/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75057
LCSD 880-75057/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75057
890-6320-21 MS	B - 72 4.5'	Total/NA	Solid	8015B NM	75057
890-6320-21 MSD	B - 72 4.5'	Total/NA	Solid	8015B NM	75057

Prep Batch: 75057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-21	B - 72 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-22	B - 73 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-23	B - 74 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-24	B - 75 4.5'	Total/NA	Solid	8015NM Prep	
MB 880-75057/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75057/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75057/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6320-21 MS	B - 72 4.5'	Total/NA	Solid	8015NM Prep	
890-6320-21 MSD	B - 72 4.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 75058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-1	SW - 4A 4.5'	Total/NA	Solid	8015 NM	
890-6320-2	SW - 5A 4.5'	Total/NA	Solid	8015 NM	
890-6320-3	B - 1 4.5'	Total/NA	Solid	8015 NM	
890-6320-4	B - 2 4.5'	Total/NA	Solid	8015 NM	
890-6320-5	B - 3 4.5'	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

GC Semi VOA (Continued)

Analysis Batch: 75058 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-6	B - 4 4.5'	Total/NA	Solid	8015 NM	
890-6320-7	B - 5 4.5'	Total/NA	Solid	8015 NM	
890-6320-8	B - 6 4.5'	Total/NA	Solid	8015 NM	
890-6320-9	B - 16 4.5'	Total/NA	Solid	8015 NM	
890-6320-10	B - 17 4.5'	Total/NA	Solid	8015 NM	
890-6320-11	B - 18 4.5'	Total/NA	Solid	8015 NM	
890-6320-12	B - 27 4.5'	Total/NA	Solid	8015 NM	
890-6320-13	B - 28 4.5'	Total/NA	Solid	8015 NM	
890-6320-14	B - 29 4.5'	Total/NA	Solid	8015 NM	
890-6320-15	B - 30 4.5'	Total/NA	Solid	8015 NM	
890-6320-16	B - 31 4.5'	Total/NA	Solid	8015 NM	
890-6320-17	B - 32 4.5'	Total/NA	Solid	8015 NM	
890-6320-18	B - 33 4.5'	Total/NA	Solid	8015 NM	
890-6320-19	B - 34 4.5'	Total/NA	Solid	8015 NM	
890-6320-20	B - 71 4.5'	Total/NA	Solid	8015 NM	
890-6320-21	B - 72 4.5'	Total/NA	Solid	8015 NM	
890-6320-22	B - 73 4.5'	Total/NA	Solid	8015 NM	
890-6320-23	B - 74 4.5'	Total/NA	Solid	8015 NM	
890-6320-24	B - 75 4.5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 74947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-1	SW - 4A 4.5'	Soluble	Solid	DI Leach	
890-6320-2	SW - 5A 4.5'	Soluble	Solid	DI Leach	
890-6320-3	B - 1 4.5'	Soluble	Solid	DI Leach	
890-6320-4	B - 2 4.5'	Soluble	Solid	DI Leach	
890-6320-5	B - 3 4.5'	Soluble	Solid	DI Leach	
890-6320-6	B - 4 4.5'	Soluble	Solid	DI Leach	
890-6320-7	B - 5 4.5'	Soluble	Solid	DI Leach	
890-6320-8	B - 6 4.5'	Soluble	Solid	DI Leach	
890-6320-9	B - 16 4.5'	Soluble	Solid	DI Leach	
890-6320-10	B - 17 4.5'	Soluble	Solid	DI Leach	
890-6320-11	B - 18 4.5'	Soluble	Solid	DI Leach	
890-6320-12	B - 27 4.5'	Soluble	Solid	DI Leach	
890-6320-13	B - 28 4.5'	Soluble	Solid	DI Leach	
890-6320-14	B - 29 4.5'	Soluble	Solid	DI Leach	
890-6320-15	B - 30 4.5'	Soluble	Solid	DI Leach	
890-6320-16	B - 31 4.5'	Soluble	Solid	DI Leach	
890-6320-17	B - 32 4.5'	Soluble	Solid	DI Leach	
890-6320-18	B - 33 4.5'	Soluble	Solid	DI Leach	
890-6320-19	B - 34 4.5'	Soluble	Solid	DI Leach	
890-6320-20	B - 71 4.5'	Soluble	Solid	DI Leach	
MB 880-74947/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74947/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74947/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6320-1 MS	SW - 4A 4.5'	Soluble	Solid	DI Leach	
890-6320-1 MSD	SW - 4A 4.5'	Soluble	Solid	DI Leach	
890-6320-11 MS	B - 18 4.5'	Soluble	Solid	DI Leach	
890-6320-11 MSD	B - 18 4.5'	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

HPLC/IC

Leach Batch: 74948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-21	B - 72 4.5'	Soluble	Solid	DI Leach	
890-6320-22	B - 73 4.5'	Soluble	Solid	DI Leach	
890-6320-23	B - 74 4.5'	Soluble	Solid	DI Leach	
890-6320-24	B - 75 4.5'	Soluble	Solid	DI Leach	
MB 880-74948/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74948/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74948/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6320-21 MS	B - 72 4.5'	Soluble	Solid	DI Leach	
890-6320-21 MSD	B - 72 4.5'	Soluble	Solid	DI Leach	

Analysis Batch: 75018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-1	SW - 4A 4.5'	Soluble	Solid	300.0	74947
890-6320-2	SW - 5A 4.5'	Soluble	Solid	300.0	74947
890-6320-3	B - 1 4.5'	Soluble	Solid	300.0	74947
890-6320-4	B - 2 4.5'	Soluble	Solid	300.0	74947
890-6320-5	B - 3 4.5'	Soluble	Solid	300.0	74947
890-6320-6	B - 4 4.5'	Soluble	Solid	300.0	74947
890-6320-7	B - 5 4.5'	Soluble	Solid	300.0	74947
890-6320-8	B - 6 4.5'	Soluble	Solid	300.0	74947
890-6320-9	B - 16 4.5'	Soluble	Solid	300.0	74947
890-6320-10	B - 17 4.5'	Soluble	Solid	300.0	74947
890-6320-11	B - 18 4.5'	Soluble	Solid	300.0	74947
890-6320-12	B - 27 4.5'	Soluble	Solid	300.0	74947
890-6320-13	B - 28 4.5'	Soluble	Solid	300.0	74947
890-6320-14	B - 29 4.5'	Soluble	Solid	300.0	74947
890-6320-15	B - 30 4.5'	Soluble	Solid	300.0	74947
890-6320-16	B - 31 4.5'	Soluble	Solid	300.0	74947
890-6320-17	B - 32 4.5'	Soluble	Solid	300.0	74947
890-6320-18	B - 33 4.5'	Soluble	Solid	300.0	74947
890-6320-19	B - 34 4.5'	Soluble	Solid	300.0	74947
890-6320-20	B - 71 4.5'	Soluble	Solid	300.0	74947
MB 880-74947/1-A	Method Blank	Soluble	Solid	300.0	74947
LCS 880-74947/2-A	Lab Control Sample	Soluble	Solid	300.0	74947
LCSD 880-74947/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74947
890-6320-1 MS	SW - 4A 4.5'	Soluble	Solid	300.0	74947
890-6320-1 MSD	SW - 4A 4.5'	Soluble	Solid	300.0	74947
890-6320-11 MS	B - 18 4.5'	Soluble	Solid	300.0	74947
890-6320-11 MSD	B - 18 4.5'	Soluble	Solid	300.0	74947

Analysis Batch: 75020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6320-21	B - 72 4.5'	Soluble	Solid	300.0	74948
890-6320-22	B - 73 4.5'	Soluble	Solid	300.0	74948
890-6320-23	B - 74 4.5'	Soluble	Solid	300.0	74948
890-6320-24	B - 75 4.5'	Soluble	Solid	300.0	74948
MB 880-74948/1-A	Method Blank	Soluble	Solid	300.0	74948
LCS 880-74948/2-A	Lab Control Sample	Soluble	Solid	300.0	74948
LCSD 880-74948/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74948
890-6320-21 MS	B - 72 4.5'	Soluble	Solid	300.0	74948
890-6320-21 MSD	B - 72 4.5'	Soluble	Solid	300.0	74948

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: SW - 4A 4.5'**Lab Sample ID: 890-6320-1****Date Collected: 03/05/24 11:30****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74704	03/06/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 16:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 16:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/07/24 20:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 20:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 15:08	CH	EET MID

Client Sample ID: SW - 5A 4.5'**Lab Sample ID: 890-6320-2****Date Collected: 03/05/24 11:35****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74704	03/06/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 16:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/07/24 22:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 22:00	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 15:21	CH	EET MID

Client Sample ID: B - 1 4.5'**Lab Sample ID: 890-6320-3****Date Collected: 03/05/24 11:40****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74704	03/06/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 17:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/07/24 22:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 22:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 15:26	CH	EET MID

Client Sample ID: B - 2 4.5'**Lab Sample ID: 890-6320-4****Date Collected: 03/05/24 11:45****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74704	03/06/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 17:21	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 2 4.5'**Lab Sample ID: 890-6320-4****Date Collected: 03/05/24 11:45****Matrix: Solid****Date Received: 03/05/24 16:50**

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			75058	03/07/24 22:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 22:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	75018	03/07/24 15:30	CH	EET MID

Client Sample ID: B - 3 4.5'**Lab Sample ID: 890-6320-5****Date Collected: 03/05/24 11:50****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74704	03/06/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 17:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/07/24 23:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 23:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 15:35	CH	EET MID

Client Sample ID: B - 4 4.5'**Lab Sample ID: 890-6320-6****Date Collected: 03/05/24 11:55****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74704	03/06/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/07/24 23:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 23:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 15:48	CH	EET MID

Client Sample ID: B - 5 4.5'**Lab Sample ID: 890-6320-7****Date Collected: 03/05/24 12:00****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74704	03/06/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 18:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/07/24 23:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 23:49	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 5 4.5'**Lab Sample ID: 890-6320-7****Date Collected: 03/05/24 12:00****Matrix: Solid****Date Received: 03/05/24 16:50**

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	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	75018	03/07/24 15:52	CH	EET MID

Client Sample ID: B - 6 4.5'**Lab Sample ID: 890-6320-8****Date Collected: 03/05/24 12:05****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74704	03/06/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 18:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 00:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 00:10	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 15:57	CH	EET MID

Client Sample ID: B - 16 4.5'**Lab Sample ID: 890-6320-9****Date Collected: 03/05/24 12:10****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74704	03/06/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 19:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 00:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 00:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 16:01	CH	EET MID

Client Sample ID: B - 17 4.5'**Lab Sample ID: 890-6320-10****Date Collected: 03/05/24 12:15****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 00:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 00:53	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 16:06	CH	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 18 4.5'**Lab Sample ID: 890-6320-11****Date Collected: 03/05/24 13:40****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 01:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 16:10	CH	EET MID

Client Sample ID: B - 27 4.5'**Lab Sample ID: 890-6320-12****Date Collected: 03/05/24 13:45****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 01:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	74954	03/08/24 01:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 16:23	CH	EET MID

Client Sample ID: B - 28 4.5'**Lab Sample ID: 890-6320-13****Date Collected: 03/05/24 13:50****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 15:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 15:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 02:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	74954	03/08/24 02:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 16:28	CH	EET MID

Client Sample ID: B - 29 4.5'**Lab Sample ID: 890-6320-14****Date Collected: 03/05/24 13:55****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 15:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 15:46	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 29 4.5'**Lab Sample ID: 890-6320-14****Date Collected: 03/05/24 13:55****Matrix: Solid****Date Received: 03/05/24 16:50**

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			75058	03/08/24 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 02:43	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 16:41	CH	EET MID

Client Sample ID: B - 30 4.5'**Lab Sample ID: 890-6320-15****Date Collected: 03/05/24 14:00****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 16:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 16:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 03:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 03:05	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 16:46	CH	EET MID

Client Sample ID: B - 31 4.5'**Lab Sample ID: 890-6320-16****Date Collected: 03/05/24 14:05****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 16:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 03:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 03:27	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 16:50	CH	EET MID

Client Sample ID: B - 32 4.5'**Lab Sample ID: 890-6320-17****Date Collected: 03/05/24 14:10****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 16:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 03:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 03:48	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 32 4.5'**Lab Sample ID: 890-6320-17****Date Collected: 03/05/24 14:10****Matrix: Solid****Date Received: 03/05/24 16:50**

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	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	75018	03/07/24 16:54	CH	EET MID

Client Sample ID: B - 33 4.5'**Lab Sample ID: 890-6320-18****Date Collected: 03/05/24 14:15****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 17:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 04:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 04:10	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	75018	03/07/24 16:59	CH	EET MID

Client Sample ID: B - 34 4.5'**Lab Sample ID: 890-6320-19****Date Collected: 03/05/24 14:20****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 17:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 04:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 04:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75018	03/07/24 17:03	CH	EET MID

Client Sample ID: B - 71 4.5'**Lab Sample ID: 890-6320-20****Date Collected: 03/05/24 14:25****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 18:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 18:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 04:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75027	03/07/24 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/08/24 04:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74947	03/07/24 07:54	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	75018	03/07/24 17:08	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 72 4.5'**Lab Sample ID: 890-6320-21****Date Collected: 03/05/24 14:30****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 18:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 18:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	75057	03/08/24 07:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 10:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		5			75020	03/07/24 15:29	CH	EET MID

Client Sample ID: B - 73 4.5'**Lab Sample ID: 890-6320-22****Date Collected: 03/05/24 14:35****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 18:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 18:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 11:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 15:49	CH	EET MID

Client Sample ID: B - 74 4.5'**Lab Sample ID: 890-6320-23****Date Collected: 03/05/24 14:40****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 18:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 18:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			75058	03/08/24 11:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 11:51	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 15:55	CH	EET MID

Client Sample ID: B - 75 4.5'**Lab Sample ID: 890-6320-24****Date Collected: 03/05/24 14:45****Matrix: Solid****Date Received: 03/05/24 16:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/07/24 19:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			75061	03/07/24 19:21	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Client Sample ID: B - 75 4.5'

Lab Sample ID: 890-6320-24

Date Collected: 03/05/24 14:45

Date Received: 03/05/24 16:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			75058	03/08/24 12:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 12:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74948	03/07/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1			75020	03/07/24 16:01	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: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23 - 14

Job ID: 890-6320-1
SDG: 30210275

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6320-1	SW - 4A 4.5'	Solid	03/05/24 11:30	03/05/24 16:50	4.5'
890-6320-2	SW - 5A 4.5'	Solid	03/05/24 11:35	03/05/24 16:50	4.5'
890-6320-3	B - 1 4.5'	Solid	03/05/24 11:40	03/05/24 16:50	4.5'
890-6320-4	B - 2 4.5'	Solid	03/05/24 11:45	03/05/24 16:50	4.5'
890-6320-5	B - 3 4.5'	Solid	03/05/24 11:50	03/05/24 16:50	4.5'
890-6320-6	B - 4 4.5'	Solid	03/05/24 11:55	03/05/24 16:50	4.5'
890-6320-7	B - 5 4.5'	Solid	03/05/24 12:00	03/05/24 16:50	4.5'
890-6320-8	B - 6 4.5'	Solid	03/05/24 12:05	03/05/24 16:50	4.5'
890-6320-9	B - 16 4.5'	Solid	03/05/24 12:10	03/05/24 16:50	4.5'
890-6320-10	B - 17 4.5'	Solid	03/05/24 12:15	03/05/24 16:50	4.5'
890-6320-11	B - 18 4.5'	Solid	03/05/24 13:40	03/05/24 16:50	4.5'
890-6320-12	B - 27 4.5'	Solid	03/05/24 13:45	03/05/24 16:50	4.5'
890-6320-13	B - 28 4.5'	Solid	03/05/24 13:50	03/05/24 16:50	4.5'
890-6320-14	B - 29 4.5'	Solid	03/05/24 13:55	03/05/24 16:50	4.5'
890-6320-15	B - 30 4.5'	Solid	03/05/24 14:00	03/05/24 16:50	4.5'
890-6320-16	B - 31 4.5'	Solid	03/05/24 14:05	03/05/24 16:50	4.5'
890-6320-17	B - 32 4.5'	Solid	03/05/24 14:10	03/05/24 16:50	4.5'
890-6320-18	B - 33 4.5'	Solid	03/05/24 14:15	03/05/24 16:50	4.5'
890-6320-19	B - 34 4.5'	Solid	03/05/24 14:20	03/05/24 16:50	4.5'
890-6320-20	B - 71 4.5'	Solid	03/05/24 14:25	03/05/24 16:50	4.5'
890-6320-21	B - 72 4.5'	Solid	03/05/24 14:30	03/05/24 16:50	4.5'
890-6320-22	B - 73 4.5'	Solid	03/05/24 14:35	03/05/24 16:50	4.5'
890-6320-23	B - 74 4.5'	Solid	03/05/24 14:40	03/05/24 16:50	4.5'
890-6320-24	B - 75 4.5'	Solid	03/05/24 14:45	03/05/24 16:50	4.5'



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
 Little Rock, AR (501) 224-5060

Environment Testing

Work Order No: _____

Page 1 of 3

Project Manager: <u>Sarah Johnson</u>	Bill to: (if different)
Company Name: <u>Arcadis</u>	Company Name:
Address: <u>1004 W. Big Springs S.W. 3rd</u>	Address:
City, State ZIP: <u>Midland, TX 79701</u>	City, State ZIP:
Phone: <u>931-436-0316</u>	Email: <u>Sarah.Johnson@Arcadis.com</u>

Project Name: <u>SLB 23-14</u>	Turn Around	Preservative Codes
Project Number: <u>30210275</u>	☐ Routine ☒ Rush 24	None: NO DI Water: H ₂ O
Project Location: <u>Edley County, NM</u>	Due Date:	Cool: Cool MeOH: Me
Sampler's Name: <u>Heath Boyd</u>	TAT starts the day received by the lab, if received by 4:30pm	HCL: HC HNO ₃
PO#:		H ₂ SO ₄ : H ₂ NaOH: Na

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters		Sample Comments
							Temp Blank: Yes No	Wet Ice: Yes No	
SW-4A 4.5'	S	3/5/24	1130	4.5'	Comp	1			
SW-SA 4.5'			1135			1			
B-1 4.5'			1140			1			
B-2 4.5'			1145			1			
B-3 4.5'			1150			1			
B-4 4.5'			1155			1			
B-5 4.5'			1200			1			
B-6 4.5'			1205			1			
B-16 4.5'			1210			1			
B-17 4.5'	X	X	1215	X	X	1			

Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	3/5/24 1650

Revised Date: 09/25/2020 Rev: 2020.2



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) 794-1206
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
 Little Rock, AR (501) 224-5060

Environment Testing

Work Order No:

Page 2 of 3

Project Manager: Sarah Johnson		Bilt for: (if different)		Work Order Comments	
Company Name: Arcadis		Company Name:		Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
Address: 1004 W Big Springs Suite 300		Address:		State of Project:	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone: 931-436-0316		Email: Sarah.Johnson@Arcadis.com		Deliverables: EDD ☐ ADAPT ☐ Other:	

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Project Number:	Project Location:	Sampler's Name:	PO#:	Turn Around	Due Date:	TAT starts the day received by the lab, if received by 4:30pm	Parameters	Pres. Code	None: NO	DI Water: H ₂ O
SCB 23-14	30210275	Eldy County, NM	Heather Boyd		☐ Routine ☒ Rush 24					Cool: Cool	MeOH: Me
SAMPLE RECEIPT 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: 											

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
B-18 4.5'	S	3/5/24	1340	4.5'	6mp	1	
B-27 4.5'			1345			1	
B-28 4.5'			1350			1	
B-29 4.5'			1355			1	
B-30 4.5'			1400			1	
B-31 4.5'			1405			1	
B-32 4.5'			1410			1	
B-33 4.5'			1415			1	
B-34 4.5'			1420			1	
B-71 4.5'			1425			1	

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCPLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471	

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	3/5/24 1650			
3					
5					

Revised Date: 08/25/2020 Rev. 2020.2



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) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5060

Environment Testing

Work Order No: _____

Page 3 of 3

Project Manager: Sarah Johnson		Bill to: (if different)		Work Order Comments	
Company Name: Arcadis		Company Name:		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
Address: 1004 W. Big Springs Suite 300		Address:		State of Project:	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone: 931-436-0316		Email: Sarah.Johnson@Arcadis.com		Deliverables: EDD ☐ ADAPT ☐ Other:	

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Turn Around	Pres. Code									
SCB 23-14	☐ Routine ☒ Rush 24										
Project Number: 30210275											
Project Location: Eddy County, NM	Due Date:										
Sampler's Name: Heather Boyd	TAT starts the day received by the lab; if received by 4:30pm										
PO #:											

SAMPLE RECEIPT				Temp Blank		Wet Ice		Thermometer ID:		Correction Factor:		Temperature Reading:		Corrected Temperature:	
Samples Received Intact:	Yes	No	Temp Blank	Yes	No	Wet Ice	Yes	No	Thermometer ID:	Yes	No	Temperature Reading:	Yes	No	Corrected Temperature:
Cooler Custody Seals:	Yes	No	N/A												
Sample Custody Seals:	Yes	No	N/A												
Total Containers:															

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code
B-72 4.5'	S	3/5/24	1430	4.5'	Comp	1	300-026FM-22V	
B-73 4.5'	I	1	1435	1	1	1	805 Mod - W/M	
B-74 4.5'			1440	1	1	1		
B-75 4.5'	X	X	1445	1	1	1		

Sample Comments
None: NO
DI Water: H ₂ O
Cool: Cool
MeOH: Me
HCL: HCl
HNO ₃
H ₂ SO ₄ : H ₂
NaOH: Na
H ₃ PO ₄ : HP
NaHSO ₄ : NABIS
Na ₂ S ₂ O 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 Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>Buang 1650</i>	3/5/24 1650			
3					
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6320-1

SDG Number: 30210275

Login Number: 6320

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6320-1

SDG Number: 30210275

Login Number: 6320

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/07/24 11:48 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sarah Johnson
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 3/11/2024 4:30:10 PM

JOB DESCRIPTION

SCB 23-14
30210275

JOB NUMBER

890-6326-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
3/11/2024 4:30:10 PM

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

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Laboratory Job ID: 890-6326-1
SDG: 30210275

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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: SCB 23-14

Job ID: 890-6326-1

Job ID: 890-6326-1

Eurofins Carlsbad

Job Narrative 890-6326-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/6/2024 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-19 (890-6326-1), B-20 (890-6326-2), B-21 (890-6326-3), B-22 (890-6326-4), B-23 (890-6326-5), B-24 (890-6326-6), B-25 (890-6326-7), B-26 (890-6326-8), B-36 (890-6326-9), B-37 (890-6326-10), B-56 (890-6326-11), B-57 (890-6326-12), B-58 (890-6326-13), B-59 (890-6326-14), B-60 (890-6326-15), B-69 (890-6326-16), B-70 (890-6326-17) and B-76 (890-6326-18).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-75091 and analytical batch 880-75094 was outside the control limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-20 (890-6326-2) and B-69 (890-6326-16). 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.

HPLC/IC

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

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-19

Lab Sample ID: 890-6326-1

Date Collected: 03/06/24 10:00

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 19:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 19:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 19:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/08/24 13:48	03/08/24 19:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 19:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/08/24 13:48	03/08/24 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	03/08/24 13:48	03/08/24 19:11	1
1,4-Difluorobenzene (Surr)	76		70 - 130	03/08/24 13:48	03/08/24 19:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/08/24 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/09/24 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/09/24 10:05	03/09/24 11:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/09/24 10:05	03/09/24 11:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/24 10:05	03/09/24 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	03/09/24 10:05	03/09/24 11:28	1
o-Terphenyl	100		70 - 130	03/09/24 10:05	03/09/24 11:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.4		4.99		mg/Kg			03/08/24 12:52	1

Client Sample ID: B-20

Lab Sample ID: 890-6326-2

Date Collected: 03/06/24 10:05

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 19:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 19:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 19:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/08/24 19:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 19:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/08/24 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/08/24 13:48	03/08/24 19:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/08/24 13:48	03/08/24 19:37	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-20

Lab Sample ID: 890-6326-2

Date Collected: 03/06/24 10:05

Matrix: Solid

Date Received: 03/06/24 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/24 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/09/24 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/09/24 10:05	03/09/24 12:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/09/24 10:05	03/09/24 12:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/09/24 10:05	03/09/24 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				03/09/24 10:05	03/09/24 12:32	1
o-Terphenyl	120		70 - 130				03/09/24 10:05	03/09/24 12:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		5.04		mg/Kg			03/08/24 13:10	1

Client Sample ID: B-21

Lab Sample ID: 890-6326-3

Date Collected: 03/06/24 10:10

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 20:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 20:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 20:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/08/24 13:48	03/08/24 20:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 20:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/08/24 13:48	03/08/24 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/08/24 13:48	03/08/24 20:04	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/08/24 13:48	03/08/24 20:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/08/24 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	<49.6	U	49.6		mg/Kg			03/09/24 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/09/24 10:05	03/09/24 12:54	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/09/24 10:05	03/09/24 12:54	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-21

Lab Sample ID: 890-6326-3

Date Collected: 03/06/24 10:10

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/09/24 10:05	03/09/24 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/09/24 10:05	03/09/24 12:54	1
o-Terphenyl	93		70 - 130				03/09/24 10:05	03/09/24 12:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	921		5.04		mg/Kg			03/08/24 13:16	1

Client Sample ID: B-22

Lab Sample ID: 890-6326-4

Date Collected: 03/06/24 10:15

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/08/24 20:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/08/24 20:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/08/24 20:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/08/24 13:48	03/08/24 20:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/08/24 20:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/08/24 13:48	03/08/24 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				03/08/24 13:48	03/08/24 20:30	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/08/24 13:48	03/08/24 20:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/08/24 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/09/24 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/09/24 10:05	03/09/24 13:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/09/24 10:05	03/09/24 13:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/24 10:05	03/09/24 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				03/09/24 10:05	03/09/24 13:16	1
o-Terphenyl	83		70 - 130				03/09/24 10:05	03/09/24 13:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	750		4.97		mg/Kg			03/08/24 13:22	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-23

Lab Sample ID: 890-6326-5

Date Collected: 03/06/24 10:20

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 20:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 20:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 20:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/08/24 13:48	03/08/24 20:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 20:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/08/24 13:48	03/08/24 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	03/08/24 13:48	03/08/24 20:57	1
1,4-Difluorobenzene (Surr)	75		70 - 130	03/08/24 13:48	03/08/24 20:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/08/24 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/09/24 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/09/24 10:05	03/09/24 13:38	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/09/24 10:05	03/09/24 13:38	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/09/24 10:05	03/09/24 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/09/24 10:05	03/09/24 13:38	1
o-Terphenyl	96		70 - 130	03/09/24 10:05	03/09/24 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	914		4.96		mg/Kg			03/08/24 13:29	1

Client Sample ID: B-24

Lab Sample ID: 890-6326-6

Date Collected: 03/06/24 10:25

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 21:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 21:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 21:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/08/24 21:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 21:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/08/24 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	03/08/24 13:48	03/08/24 21:23	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/08/24 13:48	03/08/24 21:23	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-24

Lab Sample ID: 890-6326-6

Date Collected: 03/06/24 10:25

Matrix: Solid

Date Received: 03/06/24 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/24 21:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/09/24 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	<50.5	U	50.5		mg/Kg		03/09/24 10:05	03/09/24 14:00	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/09/24 10:05	03/09/24 14:00	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/09/24 10:05	03/09/24 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				03/09/24 10:05	03/09/24 14:00	1
o-Terphenyl	109		70 - 130				03/09/24 10:05	03/09/24 14:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		5.01		mg/Kg			03/08/24 13:47	1

Client Sample ID: B-25

Lab Sample ID: 890-6326-7

Date Collected: 03/06/24 10:30

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 21:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 21:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 21:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/08/24 21:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/08/24 21:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/08/24 21:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				03/08/24 13:48	03/08/24 21:50	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/08/24 13:48	03/08/24 21:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/24 21:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/09/24 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	<49.8	U	49.8		mg/Kg		03/09/24 10:05	03/09/24 14:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/09/24 10:05	03/09/24 14:22	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-25

Lab Sample ID: 890-6326-7

Date Collected: 03/06/24 10:30

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/09/24 10:05	03/09/24 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/09/24 10:05	03/09/24 14:22	1
o-Terphenyl	98		70 - 130				03/09/24 10:05	03/09/24 14:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	754		5.00		mg/Kg			03/08/24 13:53	1

Client Sample ID: B-26

Lab Sample ID: 890-6326-8

Date Collected: 03/06/24 10:35

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 22:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 22:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 22:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/08/24 13:48	03/08/24 22:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 22:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/08/24 13:48	03/08/24 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				03/08/24 13:48	03/08/24 22:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/08/24 13:48	03/08/24 22:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/08/24 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/09/24 14:45	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	<49.7	U	49.7		mg/Kg		03/09/24 10:05	03/09/24 14:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/09/24 10:05	03/09/24 14:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/09/24 10:05	03/09/24 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/09/24 10:05	03/09/24 14:45	1
o-Terphenyl	95		70 - 130				03/09/24 10:05	03/09/24 14:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	734		4.99		mg/Kg			03/08/24 13:59	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-36

Lab Sample ID: 890-6326-9

Date Collected: 03/06/24 14:30

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/08/24 22:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/08/24 22:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/08/24 22:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/08/24 13:48	03/08/24 22:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/08/24 22:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/08/24 13:48	03/08/24 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/08/24 13:48	03/08/24 22:45	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/08/24 13:48	03/08/24 22:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/08/24 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.2		50.0		mg/Kg			03/09/24 15:07	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	<50.0	U	50.0		mg/Kg		03/09/24 10:05	03/09/24 15:07	1
Diesel Range Organics (Over C10-C28)	61.2		50.0		mg/Kg		03/09/24 10:05	03/09/24 15:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/24 10:05	03/09/24 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/09/24 10:05	03/09/24 15:07	1
o-Terphenyl	96		70 - 130	03/09/24 10:05	03/09/24 15:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	607		5.03		mg/Kg			03/08/24 14:05	1

Client Sample ID: B-37

Lab Sample ID: 890-6326-10

Date Collected: 03/06/24 14:35

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/08/24 13:48	03/08/24 23:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/08/24 13:48	03/08/24 23:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/08/24 13:48	03/08/24 23:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/08/24 13:48	03/08/24 23:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/08/24 13:48	03/08/24 23:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/08/24 13:48	03/08/24 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/08/24 13:48	03/08/24 23:12	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/08/24 13:48	03/08/24 23:12	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-37

Lab Sample ID: 890-6326-10

Date Collected: 03/06/24 14:35

Matrix: Solid

Date Received: 03/06/24 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/08/24 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/09/24 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	<49.6	U	49.6		mg/Kg		03/09/24 10:05	03/09/24 15:28	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/09/24 10:05	03/09/24 15:28	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/09/24 10:05	03/09/24 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				03/09/24 10:05	03/09/24 15:28	1
o-Terphenyl	103		70 - 130				03/09/24 10:05	03/09/24 15:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		5.05		mg/Kg			03/08/24 14:12	1

Client Sample ID: B-56

Lab Sample ID: 890-6326-11

Date Collected: 03/06/24 14:40

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 01:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 01:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 01:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/09/24 01:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 01:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/09/24 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				03/08/24 13:48	03/09/24 01:02	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/08/24 13:48	03/09/24 01:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/24 01:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/09/24 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/09/24 10:05	03/09/24 16:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/09/24 10:05	03/09/24 16:12	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-56

Lab Sample ID: 890-6326-11

Date Collected: 03/06/24 14:40

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/09/24 10:05	03/09/24 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				03/09/24 10:05	03/09/24 16:12	1
o-Terphenyl	93		70 - 130				03/09/24 10:05	03/09/24 16:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.2		5.04		mg/Kg			03/08/24 14:18	1

Client Sample ID: B-57

Lab Sample ID: 890-6326-12

Date Collected: 03/06/24 14:45

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 01:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 01:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 01:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/09/24 01:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 01:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/09/24 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				03/08/24 13:48	03/09/24 01:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/08/24 13:48	03/09/24 01:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/24 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/09/24 16:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/09/24 10:05	03/09/24 16:35	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/09/24 10:05	03/09/24 16:35	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/09/24 10:05	03/09/24 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/09/24 10:05	03/09/24 16:35	1
o-Terphenyl	100		70 - 130				03/09/24 10:05	03/09/24 16:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		4.98		mg/Kg			03/08/24 14:36	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-58

Lab Sample ID: 890-6326-13

Date Collected: 03/06/24 14:50

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 01:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 01:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 01:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/08/24 13:48	03/09/24 01:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 01:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/08/24 13:48	03/09/24 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/08/24 13:48	03/09/24 01:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/08/24 13:48	03/09/24 01:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/24 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	223		50.5		mg/Kg			03/09/24 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/09/24 10:05	03/09/24 16:57	1
Diesel Range Organics (Over C10-C28)	223		50.5		mg/Kg		03/09/24 10:05	03/09/24 16:57	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/09/24 10:05	03/09/24 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/09/24 10:05	03/09/24 16:57	1
o-Terphenyl	98		70 - 130	03/09/24 10:05	03/09/24 16:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		4.97		mg/Kg			03/08/24 14:42	1

Client Sample ID: B-59

Lab Sample ID: 890-6326-14

Date Collected: 03/06/24 14:55

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/09/24 02:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/09/24 02:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/09/24 02:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/08/24 13:48	03/09/24 02:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/08/24 13:48	03/09/24 02:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/08/24 13:48	03/09/24 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/08/24 13:48	03/09/24 02:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/08/24 13:48	03/09/24 02:25	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-59

Lab Sample ID: 890-6326-14

Date Collected: 03/06/24 14:55

Matrix: Solid

Date Received: 03/06/24 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/09/24 02:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	165		49.5		mg/Kg			03/09/24 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		03/09/24 10:05	03/09/24 17:19	1
Diesel Range Organics (Over C10-C28)	165		49.5		mg/Kg		03/09/24 10:05	03/09/24 17:19	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		03/09/24 10:05	03/09/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				03/09/24 10:05	03/09/24 17:19	1
o-Terphenyl	102		70 - 130				03/09/24 10:05	03/09/24 17:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	481		4.99		mg/Kg			03/08/24 15:01	1

Client Sample ID: B-60

Lab Sample ID: 890-6326-15

Date Collected: 03/06/24 15:00

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 02:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 02:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 02:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/08/24 13:48	03/09/24 02:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 02:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/08/24 13:48	03/09/24 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/08/24 13:48	03/09/24 02:52	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/08/24 13:48	03/09/24 02:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/09/24 02:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	172		49.6		mg/Kg			03/09/24 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	<49.6	U	49.6		mg/Kg		03/09/24 10:05	03/09/24 17:41	1
Diesel Range Organics (Over C10-C28)	172		49.6		mg/Kg		03/09/24 10:05	03/09/24 17:41	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-60

Lab Sample ID: 890-6326-15

Date Collected: 03/06/24 15:00

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/09/24 10:05	03/09/24 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				03/09/24 10:05	03/09/24 17:41	1
o-Terphenyl	102		70 - 130				03/09/24 10:05	03/09/24 17:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	495		5.05		mg/Kg			03/08/24 15:07	1

Client Sample ID: B-69

Lab Sample ID: 890-6326-16

Date Collected: 03/06/24 15:05

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 03:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 03:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 03:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/09/24 03:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 03:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/09/24 03:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				03/08/24 13:48	03/09/24 03:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/08/24 13:48	03/09/24 03:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/24 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/09/24 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/09/24 10:05	03/09/24 18:04	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/09/24 10:05	03/09/24 18:04	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/09/24 10:05	03/09/24 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	201	S1+	70 - 130				03/09/24 10:05	03/09/24 18:04	1
o-Terphenyl	178	S1+	70 - 130				03/09/24 10:05	03/09/24 18:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	586		5.03		mg/Kg			03/08/24 15:13	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-70

Lab Sample ID: 890-6326-17

Date Collected: 03/06/24 15:10

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 03:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 03:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 03:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/09/24 03:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/08/24 13:48	03/09/24 03:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/08/24 13:48	03/09/24 03:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/08/24 13:48	03/09/24 03:46	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/08/24 13:48	03/09/24 03:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/09/24 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	85.6		50.4		mg/Kg			03/09/24 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/09/24 10:05	03/09/24 18:26	1
Diesel Range Organics (Over C10-C28)	85.6		50.4		mg/Kg		03/09/24 10:05	03/09/24 18:26	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/09/24 10:05	03/09/24 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				03/09/24 10:05	03/09/24 18:26	1
o-Terphenyl	116		70 - 130				03/09/24 10:05	03/09/24 18:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		5.00		mg/Kg			03/08/24 15:19	1

Client Sample ID: B-76

Lab Sample ID: 890-6326-18

Date Collected: 03/06/24 15:15

Matrix: Solid

Date Received: 03/06/24 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 04:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 04:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 04:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/08/24 13:48	03/09/24 04:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/09/24 04:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/08/24 13:48	03/09/24 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/08/24 13:48	03/09/24 04:13	1
1,4-Difluorobenzene (Surr)	82		70 - 130				03/08/24 13:48	03/09/24 04:13	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-76

Lab Sample ID: 890-6326-18

Date Collected: 03/06/24 15:15

Matrix: Solid

Date Received: 03/06/24 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/09/24 04:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			03/09/24 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		03/09/24 10:05	03/09/24 18:48	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		03/09/24 10:05	03/09/24 18:48	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		03/09/24 10:05	03/09/24 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/09/24 10:05	03/09/24 18:48	1
o-Terphenyl	95		70 - 130	03/09/24 10:05	03/09/24 18:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		5.02		mg/Kg			03/08/24 15:25	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-6326-1	B-19	80	76
890-6326-1 MS	B-19	105	108
890-6326-1 MSD	B-19	100	105
890-6326-2	B-20	100	97
890-6326-3	B-21	94	92
890-6326-4	B-22	90	89
890-6326-5	B-23	85	75
890-6326-6	B-24	86	82
890-6326-7	B-25	92	93
890-6326-8	B-26	91	96
890-6326-9	B-36	99	102
890-6326-10	B-37	97	98
890-6326-11	B-56	92	91
890-6326-12	B-57	113	96
890-6326-13	B-58	108	92
890-6326-14	B-59	107	97
890-6326-15	B-60	103	101
890-6326-16	B-69	102	97
890-6326-17	B-70	94	89
890-6326-18	B-76	94	82
LCS 880-75091/1-A	Lab Control Sample	95	108
LCSD 880-75091/2-A	Lab Control Sample Dup	102	108
MB 880-75091/5-A	Method Blank	62 S1-	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6326-1	B-19	114	100
890-6326-1 MS	B-19	110	91
890-6326-1 MSD	B-19	108	91
890-6326-2	B-20	131 S1+	120
890-6326-3	B-21	100	93
890-6326-4	B-22	89	83
890-6326-5	B-23	103	96
890-6326-6	B-24	118	109
890-6326-7	B-25	110	98
890-6326-8	B-26	105	95
890-6326-9	B-36	104	96
890-6326-10	B-37	114	103
890-6326-11	B-56	102	93
890-6326-12	B-57	110	100
890-6326-13	B-58	108	98
890-6326-14	B-59	112	102

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6326-15	B-60	113	102
890-6326-16	B-69	201 S1+	178 S1+
890-6326-17	B-70	127	116
890-6326-18	B-76	103	95
LCS 880-75146/2-A	Lab Control Sample	110	123
LCSD 880-75146/3-A	Lab Control Sample Dup	101	104
MB 880-75146/1-A	Method Blank	103	98
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-75091/5-A

Matrix: Solid

Analysis Batch: 75094

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75091

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 18:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 18:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 18:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/08/24 13:48	03/08/24 18:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/08/24 13:48	03/08/24 18:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/08/24 13:48	03/08/24 18:45	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	03/08/24 13:48	03/08/24 18:45	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/08/24 13:48	03/08/24 18:45	1

Lab Sample ID: LCS 880-75091/1-A

Matrix: Solid

Analysis Batch: 75094

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75091

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.09481		mg/Kg		95	70 - 130
Toluene	0.100	0.09267		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09215		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1833		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09162		mg/Kg		92	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-75091/2-A

Matrix: Solid

Analysis Batch: 75094

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75091

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.09578		mg/Kg		96	70 - 130	1	35
Toluene	0.100	0.09450		mg/Kg		95	70 - 130	2	35
Ethylbenzene	0.100	0.09457		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 - 130	3	35
o-Xylene	0.100	0.09501		mg/Kg		95	70 - 130	4	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-6326-1 MS

Matrix: Solid

Analysis Batch: 75094

Client Sample ID: B-19

Prep Type: Total/NA

Prep Batch: 75091

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.00200	U	0.100	0.08504		mg/Kg		85	70 - 130
Toluene	<0.00200	U	0.100	0.08407		mg/Kg		84	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

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

Lab Sample ID: 890-6326-1 MS

Matrix: Solid

Analysis Batch: 75094

Client Sample ID: B-19

Prep Type: Total/NA

Prep Batch: 75091

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08259		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1639		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.100	0.08164		mg/Kg		81	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	105		70 - 130						
1,4-Difluorobenzene (Surr)	108		70 - 130						

Lab Sample ID: 890-6326-1 MSD

Matrix: Solid

Analysis Batch: 75094

Client Sample ID: B-19

Prep Type: Total/NA

Prep Batch: 75091

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08393		mg/Kg		85	70 - 130	1	35
Toluene	<0.00200	U	0.0990	0.08395		mg/Kg		85	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0990	0.08229		mg/Kg		83	70 - 130	0	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1637		mg/Kg		82	70 - 130	0	35
o-Xylene	<0.00200	U	0.0990	0.08075		mg/Kg		82	70 - 130	1	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

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

Lab Sample ID: MB 880-75146/1-A

Matrix: Solid

Analysis Batch: 75142

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/09/24 08:00	03/09/24 08:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/24 08:00	03/09/24 08:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/24 08:00	03/09/24 08:56	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/09/24 08:00	03/09/24 08:56	1
o-Terphenyl	98		70 - 130				03/09/24 08:00	03/09/24 08:56	1

Lab Sample ID: LCS 880-75146/2-A

Matrix: Solid

Analysis Batch: 75142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1074		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1010		mg/Kg		101	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

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

Lab Sample ID: LCS 880-75146/2-A

Matrix: Solid

Analysis Batch: 75142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75146

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: LCSD 880-75146/3-A

Matrix: Solid

Analysis Batch: 75142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75146

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	900.7		mg/Kg		90	70 - 130	11	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-6326-1 MS

Matrix: Solid

Analysis Batch: 75142

Client Sample ID: B-19

Prep Type: Total/NA

Prep Batch: 75146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1039		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1049		mg/Kg		102	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-6326-1 MSD

Matrix: Solid

Analysis Batch: 75142

Client Sample ID: B-19

Prep Type: Total/NA

Prep Batch: 75146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	916.7		mg/Kg		87	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1043		mg/Kg		101	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	91		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-75074/1-A

Matrix: Solid

Analysis Batch: 75087

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/08/24 12:15	1

Lab Sample ID: LCS 880-75074/2-A

Matrix: Solid

Analysis Batch: 75087

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.5		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-75074/3-A

Matrix: Solid

Analysis Batch: 75087

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	239.7		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-6326-1 MS

Matrix: Solid

Analysis Batch: 75087

Client Sample ID: B-19

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16.4		250	262.4		mg/Kg		99	90 - 110

Lab Sample ID: 890-6326-1 MSD

Matrix: Solid

Analysis Batch: 75087

Client Sample ID: B-19

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16.4		250	246.4		mg/Kg		92	90 - 110	6	20

Lab Sample ID: 890-6326-11 MS

Matrix: Solid

Analysis Batch: 75087

Client Sample ID: B-56

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	79.2		252	324.8		mg/Kg		97	90 - 110

Lab Sample ID: 890-6326-11 MSD

Matrix: Solid

Analysis Batch: 75087

Client Sample ID: B-56

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	79.2		252	311.5		mg/Kg		92	90 - 110	4	20

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

GC VOA

Prep Batch: 75091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-1	B-19	Total/NA	Solid	5035	
890-6326-2	B-20	Total/NA	Solid	5035	
890-6326-3	B-21	Total/NA	Solid	5035	
890-6326-4	B-22	Total/NA	Solid	5035	
890-6326-5	B-23	Total/NA	Solid	5035	
890-6326-6	B-24	Total/NA	Solid	5035	
890-6326-7	B-25	Total/NA	Solid	5035	
890-6326-8	B-26	Total/NA	Solid	5035	
890-6326-9	B-36	Total/NA	Solid	5035	
890-6326-10	B-37	Total/NA	Solid	5035	
890-6326-11	B-56	Total/NA	Solid	5035	
890-6326-12	B-57	Total/NA	Solid	5035	
890-6326-13	B-58	Total/NA	Solid	5035	
890-6326-14	B-59	Total/NA	Solid	5035	
890-6326-15	B-60	Total/NA	Solid	5035	
890-6326-16	B-69	Total/NA	Solid	5035	
890-6326-17	B-70	Total/NA	Solid	5035	
890-6326-18	B-76	Total/NA	Solid	5035	
MB 880-75091/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75091/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75091/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6326-1 MS	B-19	Total/NA	Solid	5035	
890-6326-1 MSD	B-19	Total/NA	Solid	5035	

Analysis Batch: 75094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-1	B-19	Total/NA	Solid	8021B	75091
890-6326-2	B-20	Total/NA	Solid	8021B	75091
890-6326-3	B-21	Total/NA	Solid	8021B	75091
890-6326-4	B-22	Total/NA	Solid	8021B	75091
890-6326-5	B-23	Total/NA	Solid	8021B	75091
890-6326-6	B-24	Total/NA	Solid	8021B	75091
890-6326-7	B-25	Total/NA	Solid	8021B	75091
890-6326-8	B-26	Total/NA	Solid	8021B	75091
890-6326-9	B-36	Total/NA	Solid	8021B	75091
890-6326-10	B-37	Total/NA	Solid	8021B	75091
890-6326-11	B-56	Total/NA	Solid	8021B	75091
890-6326-12	B-57	Total/NA	Solid	8021B	75091
890-6326-13	B-58	Total/NA	Solid	8021B	75091
890-6326-14	B-59	Total/NA	Solid	8021B	75091
890-6326-15	B-60	Total/NA	Solid	8021B	75091
890-6326-16	B-69	Total/NA	Solid	8021B	75091
890-6326-17	B-70	Total/NA	Solid	8021B	75091
890-6326-18	B-76	Total/NA	Solid	8021B	75091
MB 880-75091/5-A	Method Blank	Total/NA	Solid	8021B	75091
LCS 880-75091/1-A	Lab Control Sample	Total/NA	Solid	8021B	75091
LCSD 880-75091/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75091
890-6326-1 MS	B-19	Total/NA	Solid	8021B	75091
890-6326-1 MSD	B-19	Total/NA	Solid	8021B	75091

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

GC VOA

Analysis Batch: 75217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-1	B-19	Total/NA	Solid	Total BTEX	
890-6326-2	B-20	Total/NA	Solid	Total BTEX	
890-6326-3	B-21	Total/NA	Solid	Total BTEX	
890-6326-4	B-22	Total/NA	Solid	Total BTEX	
890-6326-5	B-23	Total/NA	Solid	Total BTEX	
890-6326-6	B-24	Total/NA	Solid	Total BTEX	
890-6326-7	B-25	Total/NA	Solid	Total BTEX	
890-6326-8	B-26	Total/NA	Solid	Total BTEX	
890-6326-9	B-36	Total/NA	Solid	Total BTEX	
890-6326-10	B-37	Total/NA	Solid	Total BTEX	
890-6326-11	B-56	Total/NA	Solid	Total BTEX	
890-6326-12	B-57	Total/NA	Solid	Total BTEX	
890-6326-13	B-58	Total/NA	Solid	Total BTEX	
890-6326-14	B-59	Total/NA	Solid	Total BTEX	
890-6326-15	B-60	Total/NA	Solid	Total BTEX	
890-6326-16	B-69	Total/NA	Solid	Total BTEX	
890-6326-17	B-70	Total/NA	Solid	Total BTEX	
890-6326-18	B-76	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 75142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-1	B-19	Total/NA	Solid	8015B NM	75146
890-6326-2	B-20	Total/NA	Solid	8015B NM	75146
890-6326-3	B-21	Total/NA	Solid	8015B NM	75146
890-6326-4	B-22	Total/NA	Solid	8015B NM	75146
890-6326-5	B-23	Total/NA	Solid	8015B NM	75146
890-6326-6	B-24	Total/NA	Solid	8015B NM	75146
890-6326-7	B-25	Total/NA	Solid	8015B NM	75146
890-6326-8	B-26	Total/NA	Solid	8015B NM	75146
890-6326-9	B-36	Total/NA	Solid	8015B NM	75146
890-6326-10	B-37	Total/NA	Solid	8015B NM	75146
890-6326-11	B-56	Total/NA	Solid	8015B NM	75146
890-6326-12	B-57	Total/NA	Solid	8015B NM	75146
890-6326-13	B-58	Total/NA	Solid	8015B NM	75146
890-6326-14	B-59	Total/NA	Solid	8015B NM	75146
890-6326-15	B-60	Total/NA	Solid	8015B NM	75146
890-6326-16	B-69	Total/NA	Solid	8015B NM	75146
890-6326-17	B-70	Total/NA	Solid	8015B NM	75146
890-6326-18	B-76	Total/NA	Solid	8015B NM	75146
MB 880-75146/1-A	Method Blank	Total/NA	Solid	8015B NM	75146
LCS 880-75146/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75146
LCSD 880-75146/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75146
890-6326-1 MS	B-19	Total/NA	Solid	8015B NM	75146
890-6326-1 MSD	B-19	Total/NA	Solid	8015B NM	75146

Prep Batch: 75146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-1	B-19	Total/NA	Solid	8015NM Prep	
890-6326-2	B-20	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

GC Semi VOA (Continued)

Prep Batch: 75146 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-3	B-21	Total/NA	Solid	8015NM Prep	
890-6326-4	B-22	Total/NA	Solid	8015NM Prep	
890-6326-5	B-23	Total/NA	Solid	8015NM Prep	
890-6326-6	B-24	Total/NA	Solid	8015NM Prep	
890-6326-7	B-25	Total/NA	Solid	8015NM Prep	
890-6326-8	B-26	Total/NA	Solid	8015NM Prep	
890-6326-9	B-36	Total/NA	Solid	8015NM Prep	
890-6326-10	B-37	Total/NA	Solid	8015NM Prep	
890-6326-11	B-56	Total/NA	Solid	8015NM Prep	
890-6326-12	B-57	Total/NA	Solid	8015NM Prep	
890-6326-13	B-58	Total/NA	Solid	8015NM Prep	
890-6326-14	B-59	Total/NA	Solid	8015NM Prep	
890-6326-15	B-60	Total/NA	Solid	8015NM Prep	
890-6326-16	B-69	Total/NA	Solid	8015NM Prep	
890-6326-17	B-70	Total/NA	Solid	8015NM Prep	
890-6326-18	B-76	Total/NA	Solid	8015NM Prep	
MB 880-75146/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75146/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75146/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6326-1 MS	B-19	Total/NA	Solid	8015NM Prep	
890-6326-1 MSD	B-19	Total/NA	Solid	8015NM Prep	

Analysis Batch: 75330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-1	B-19	Total/NA	Solid	8015 NM	
890-6326-2	B-20	Total/NA	Solid	8015 NM	
890-6326-3	B-21	Total/NA	Solid	8015 NM	
890-6326-4	B-22	Total/NA	Solid	8015 NM	
890-6326-5	B-23	Total/NA	Solid	8015 NM	
890-6326-6	B-24	Total/NA	Solid	8015 NM	
890-6326-7	B-25	Total/NA	Solid	8015 NM	
890-6326-8	B-26	Total/NA	Solid	8015 NM	
890-6326-9	B-36	Total/NA	Solid	8015 NM	
890-6326-10	B-37	Total/NA	Solid	8015 NM	
890-6326-11	B-56	Total/NA	Solid	8015 NM	
890-6326-12	B-57	Total/NA	Solid	8015 NM	
890-6326-13	B-58	Total/NA	Solid	8015 NM	
890-6326-14	B-59	Total/NA	Solid	8015 NM	
890-6326-15	B-60	Total/NA	Solid	8015 NM	
890-6326-16	B-69	Total/NA	Solid	8015 NM	
890-6326-17	B-70	Total/NA	Solid	8015 NM	
890-6326-18	B-76	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 75074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-1	B-19	Soluble	Solid	DI Leach	
890-6326-2	B-20	Soluble	Solid	DI Leach	
890-6326-3	B-21	Soluble	Solid	DI Leach	
890-6326-4	B-22	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

HPLC/IC (Continued)

Leach Batch: 75074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-5	B-23	Soluble	Solid	DI Leach	
890-6326-6	B-24	Soluble	Solid	DI Leach	
890-6326-7	B-25	Soluble	Solid	DI Leach	
890-6326-8	B-26	Soluble	Solid	DI Leach	
890-6326-9	B-36	Soluble	Solid	DI Leach	
890-6326-10	B-37	Soluble	Solid	DI Leach	
890-6326-11	B-56	Soluble	Solid	DI Leach	
890-6326-12	B-57	Soluble	Solid	DI Leach	
890-6326-13	B-58	Soluble	Solid	DI Leach	
890-6326-14	B-59	Soluble	Solid	DI Leach	
890-6326-15	B-60	Soluble	Solid	DI Leach	
890-6326-16	B-69	Soluble	Solid	DI Leach	
890-6326-17	B-70	Soluble	Solid	DI Leach	
890-6326-18	B-76	Soluble	Solid	DI Leach	
MB 880-75074/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75074/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75074/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6326-1 MS	B-19	Soluble	Solid	DI Leach	
890-6326-1 MSD	B-19	Soluble	Solid	DI Leach	
890-6326-11 MS	B-56	Soluble	Solid	DI Leach	
890-6326-11 MSD	B-56	Soluble	Solid	DI Leach	

Analysis Batch: 75087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6326-1	B-19	Soluble	Solid	300.0	75074
890-6326-2	B-20	Soluble	Solid	300.0	75074
890-6326-3	B-21	Soluble	Solid	300.0	75074
890-6326-4	B-22	Soluble	Solid	300.0	75074
890-6326-5	B-23	Soluble	Solid	300.0	75074
890-6326-6	B-24	Soluble	Solid	300.0	75074
890-6326-7	B-25	Soluble	Solid	300.0	75074
890-6326-8	B-26	Soluble	Solid	300.0	75074
890-6326-9	B-36	Soluble	Solid	300.0	75074
890-6326-10	B-37	Soluble	Solid	300.0	75074
890-6326-11	B-56	Soluble	Solid	300.0	75074
890-6326-12	B-57	Soluble	Solid	300.0	75074
890-6326-13	B-58	Soluble	Solid	300.0	75074
890-6326-14	B-59	Soluble	Solid	300.0	75074
890-6326-15	B-60	Soluble	Solid	300.0	75074
890-6326-16	B-69	Soluble	Solid	300.0	75074
890-6326-17	B-70	Soluble	Solid	300.0	75074
890-6326-18	B-76	Soluble	Solid	300.0	75074
MB 880-75074/1-A	Method Blank	Soluble	Solid	300.0	75074
LCS 880-75074/2-A	Lab Control Sample	Soluble	Solid	300.0	75074
LCSD 880-75074/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75074
890-6326-1 MS	B-19	Soluble	Solid	300.0	75074
890-6326-1 MSD	B-19	Soluble	Solid	300.0	75074
890-6326-11 MS	B-56	Soluble	Solid	300.0	75074
890-6326-11 MSD	B-56	Soluble	Solid	300.0	75074

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-19
Date Collected: 03/06/24 10:00
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 11:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 12:52	CH	EET MID

Client Sample ID: B-20
Date Collected: 03/06/24 10:05
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 19:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 19:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 12:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 12:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 13:10	CH	EET MID

Client Sample ID: B-21
Date Collected: 03/06/24 10:10
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 20:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 20:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 12:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 12:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 13:16	CH	EET MID

Client Sample ID: B-22
Date Collected: 03/06/24 10:15
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 20:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 20:30	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-22
Date Collected: 03/06/24 10:15
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-4
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			75330	03/09/24 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 13:16	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 13:22	CH	EET MID

Client Sample ID: B-23
Date Collected: 03/06/24 10:20
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 20:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 20:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 13:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 13:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 13:29	CH	EET MID

Client Sample ID: B-24
Date Collected: 03/06/24 10:25
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 21:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 21:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 14:00	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 13:47	CH	EET MID

Client Sample ID: B-25
Date Collected: 03/06/24 10:30
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 21:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 21:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 14:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 14:22	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-25

Lab Sample ID: 890-6326-7

Date Collected: 03/06/24 10:30

Matrix: Solid

Date Received: 03/06/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 13:53	CH	EET MID

Client Sample ID: B-26

Lab Sample ID: 890-6326-8

Date Collected: 03/06/24 10:35

Matrix: Solid

Date Received: 03/06/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 22:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 22:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 14:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 13:59	CH	EET MID

Client Sample ID: B-36

Lab Sample ID: 890-6326-9

Date Collected: 03/06/24 14:30

Matrix: Solid

Date Received: 03/06/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 22:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 15:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 15:07	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 14:05	CH	EET MID

Client Sample ID: B-37

Lab Sample ID: 890-6326-10

Date Collected: 03/06/24 14:35

Matrix: Solid

Date Received: 03/06/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/08/24 23:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/08/24 23:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 15:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 15:28	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 14:12	CH	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-56
Date Collected: 03/06/24 14:40
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/09/24 01:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/09/24 01:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 16:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 16:12	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 14:18	CH	EET MID

Client Sample ID: B-57
Date Collected: 03/06/24 14:45
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/09/24 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/09/24 01:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 16:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 16:35	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 14:36	CH	EET MID

Client Sample ID: B-58
Date Collected: 03/06/24 14:50
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/09/24 01:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/09/24 01:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 16:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 16:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 14:42	CH	EET MID

Client Sample ID: B-59
Date Collected: 03/06/24 14:55
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/09/24 02:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/09/24 02:25	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-59
Date Collected: 03/06/24 14:55
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-14
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			75330	03/09/24 17:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 17:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 15:01	CH	EET MID

Client Sample ID: B-60
Date Collected: 03/06/24 15:00
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/09/24 02:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/09/24 02:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 17:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 17:41	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 15:07	CH	EET MID

Client Sample ID: B-69
Date Collected: 03/06/24 15:05
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/09/24 03:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/09/24 03:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 18:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 15:13	CH	EET MID

Client Sample ID: B-70
Date Collected: 03/06/24 15:10
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/09/24 03:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/09/24 03:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 18:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 18:26	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Client Sample ID: B-70
Date Collected: 03/06/24 15:10
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-17
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			5.00 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 15:19	CH	EET MID

Client Sample ID: B-76
Date Collected: 03/06/24 15:15
Date Received: 03/06/24 16:00

Lab Sample ID: 890-6326-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	75091	03/08/24 13:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75094	03/09/24 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75217	03/09/24 04:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			75330	03/09/24 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	75146	03/09/24 10:05	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75142	03/09/24 18:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	75074	03/08/24 11:34	SA	EET MID
Soluble	Analysis	300.0		1			75087	03/08/24 15:25	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: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: SCB 23-14

Job ID: 890-6326-1
SDG: 30210275

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6326-1	B-19	Solid	03/06/24 10:00	03/06/24 16:00
890-6326-2	B-20	Solid	03/06/24 10:05	03/06/24 16:00
890-6326-3	B-21	Solid	03/06/24 10:10	03/06/24 16:00
890-6326-4	B-22	Solid	03/06/24 10:15	03/06/24 16:00
890-6326-5	B-23	Solid	03/06/24 10:20	03/06/24 16:00
890-6326-6	B-24	Solid	03/06/24 10:25	03/06/24 16:00
890-6326-7	B-25	Solid	03/06/24 10:30	03/06/24 16:00
890-6326-8	B-26	Solid	03/06/24 10:35	03/06/24 16:00
890-6326-9	B-36	Solid	03/06/24 14:30	03/06/24 16:00
890-6326-10	B-37	Solid	03/06/24 14:35	03/06/24 16:00
890-6326-11	B-56	Solid	03/06/24 14:40	03/06/24 16:00
890-6326-12	B-57	Solid	03/06/24 14:45	03/06/24 16:00
890-6326-13	B-58	Solid	03/06/24 14:50	03/06/24 16:00
890-6326-14	B-59	Solid	03/06/24 14:55	03/06/24 16:00
890-6326-15	B-60	Solid	03/06/24 15:00	03/06/24 16:00
890-6326-16	B-69	Solid	03/06/24 15:05	03/06/24 16:00
890-6326-17	B-70	Solid	03/06/24 15:10	03/06/24 16:00
890-6326-18	B-76	Solid	03/06/24 15:15	03/06/24 16:00



eurofins

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) 784-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
 Little Rock, AR (501) 224-5060

Environment Testing

Work Order No:

Page 1 of 2

Project Manager: Sarah Johnson		Bill to: (if different)		Work Order Comments	
Company Name: Arcadis		Company Name:		Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
Address: 1004 W. Big Springs Suite 300		Address:		State of Project:	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone: 931-436-0316		Email: Sarah.Johnson@Arcadis.com		Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name: 5CB 23-14		Turn Around		ANALYSIS REQUEST		Preservative Codes	
Project Number: 30210275		☐ Routine ☒ Rush 24		None: NO		DI Water: H ₂ O	
Project Location: Eddy County, NM		Due Date:		Cool: Cool		MeOH: Me	
Sampler's Name: Hesth Boyd		TAT starts the day received by the lab, if received by 4:00pm		HCL: HCl		HNO ₃	
PO #:				H ₂ SO ₄ : H ₂		NaOH: Na	

SAMPLE RECEIPT		Temp Blank: ☒ Yes ☒ No		Wet Ice: ☒ Yes ☒ No		Parameters	
Samples Received Intact: ☒ Yes ☒ No		Thermometer ID: TMM001		Correction Factor: -0.2		890-6326 Chain of Custody	
Cooler Custody Seals: ☒ Yes ☒ No		Temperature Reading: 0.8		Corrected Temperature: 0.6			
Sample Custody Seals: ☒ Yes ☒ No							
Total Containers:							

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
B-19 4.5'	S	3/6/24	1000	4.5'	Comp	1	
B-20 4.5'			1005			1	
B-21 4.5'			1010			1	
B-22 4.5'			1015			1	
B-23 4.5'			1020			1	
B-24 4.5'			1025			1	
B-25 4.5'			1030			1	
B-26 4.5'			1035			1	
B-36 4.5'			1430			1	
B-37 4.5'	X	X	1435	X	X	1	

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471	

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Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
1 <i>[Signature]</i>	<i>alshen</i>			3/6/24 1600	2
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5					6



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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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
 Little Rock, AR (501) 224-5060

Environment Testing

Work Order No:

Page 2 of 2

Project Manager:	Sarah Johnson	Bill To: (if different)	
Company Name:	Arcaadis	Company Name:	
Address:	1004 W. Big Springs Suite 300	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	971-436-0316	Email:	Sarah.Johnson@Arcaadis.com

Project Name:	SCB 23-14	Turn Around	☐ Routine ☒ Rush 24	Pres. Code	
Project Number:	30210 275	Due Date:			
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 3:00pm			
Sampler's Name:	Heather Boyd				
PO#:					

SAMPLE RECEIPT				Parameters			
Samples Received Intact:	Yes No	Temp Blank:	Yes No	Wet Ice:	Yes No		
Cooler Custody Seals:	Yes No N/A	Thermometer ID:		Correction Factor:			
Sample Custody Seals:	Yes No N/A	Temperature Reading:		Corrected Temperature:			
Total Containers:							
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont
B-56	4.5'	S	3/6/24	1440	4.5'	Lamp	1
B-57	4.5'			1445			1
B-58	4.5'			1450			1
B-59	4.5'			1455			1
B-60	4.5'			1500			1
B-69	4.5'			1505			1
B-70	4.5'			1510			1
B-76	4.5'			1515			1

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

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1		3/6/24 1600			
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Revised Date 08/25/2020 Rev. 2020.2



Environment Testing

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
Little Rock, AR (501) 224-5060

Work Order No:

Page 1 of 2

Project Manager:	Sarah Johnson	Bill to: (if different)	
Company Name:	Arccadis	Company Name:	
Address:	1004 W. Big Springs Suite 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	931-436-0316	Email:	Sarah.Johnson@Arccadis.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:	SLB 23-14	Turn Around	
Project Number:	30210275	☐ Routine ☒ Rush 24	Pres. Code
Project Location:	Eddy 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: ☒ No ☐ Yes	Wet Ice: ☒ No ☐ Yes	Parameters
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	TPM001
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.2
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	0.8
Total Containers:		Corrected Temperature:	0.6

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont																
B-19 4.5'	S	3/6/24	1000	4.5'	Comp	1	X	X	X	X												
B-20 4.5'							X	X	X	X												
B-21 4.5'							X	X	X	X												
B-22 4.5'							X	X	X	X												
B-23 4.5'							X	X	X	X												
B-24 4.5'							X	X	X	X												
B-25 4.5'							X	X	X	X												
B-26 4.5'							X	X	X	X												
B-36 4.5'							X	X	X	X												
B-37 4.5'	X	X	1435	X	X	1	X	X	X	X												

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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		3/6/24 1600			2
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Environment Testing

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) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5060

Work Order No:

Page 2 of 2

Project Manager:	Sarah Johnson	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:	1004 W. Big Springs Blvd 300	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	931-436-0316	Email:	Sarah.Johnson@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:	SCB 23-14	Turn Around		ANALYSIS REQUEST	Preservative Codes
Project Number:	30210275	☐ Routine ☒ Rush	Z1		
Project Location:	Eddy 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	Parameters	ANALYSIS REQUEST	Preservative Codes
B-56 4.5'	5	3/6/24	1440	4.5'	Comp	1	300-ORG FM Z8D		None: NO DI Water: H ₂ O
B-57 4.5'			1445			1	8015 MOD-NM		Cool: Cool MeOH: Me
B-58 4.5'			1450			1	8015 MOD-NM		HCL: HC HNO ₃
B-59 4.5'			1455			1			H ₂ SO ₄ : H ₂ NaOH: Na
B-60 4.5'			1500			1			H ₃ PO ₄ : HP
B-61 4.5'			1505			1			NaHSO ₄ : NABIS
B-70 4.5'			1510			1			Na ₂ S ₂ O ₅ : NaSO ₃
B-71 4.5'			1515			1			Zn Acetate+NaOH: Zn
B-72 4.5'						1			NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PFM Texas 11	AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3/6/24 1600			

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6326-1

SDG Number: 30210275

Login Number: 6326

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 890-6326-1

SDG Number: 30210275

Login Number: 6326

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/08/24 11:31 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis US Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 3/25/2025 4:36:27 PM Revision 1

JOB DESCRIPTION

SCB 23-14

JOB NUMBER

890-6352-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



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

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Revision 1

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Laboratory Job ID: 890-6352-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
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: SCB 23-14

Job ID: 890-6352-1

Job ID: 890-6352-1

Eurofins Carlsbad

Job Narrative 890-6352-1

REVISION

The report being provided is a revision of the original report sent on 3/18/2024. The report (revision 1) is being revised due to Revised report to re-upload COC PDF due to a corrupt file..

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 sample was received on 3/13/2024 12:20 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.0°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: B-28 (890-6352-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-75608 and analytical batch 880-75655 was outside the upper control limits.

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

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

Client Sample ID: B-28

Lab Sample ID: 890-6352-1

Date Collected: 03/13/24 11:40

Matrix: Solid

Date Received: 03/13/24 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/14/24 14:42	03/15/24 12:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/14/24 14:42	03/15/24 12:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/14/24 14:42	03/15/24 12:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/14/24 14:42	03/15/24 12:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/14/24 14:42	03/15/24 12:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/14/24 14:42	03/15/24 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/14/24 14:42	03/15/24 12:01	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/14/24 14:42	03/15/24 12:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/15/24 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/15/24 10:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/24 13:13	03/15/24 10:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/24 13:13	03/15/24 10:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/24 13:13	03/15/24 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	03/14/24 13:13	03/15/24 10:40	1
o-Terphenyl	93		70 - 130	03/14/24 13:13	03/15/24 10:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	335		25.1		mg/Kg			03/14/24 14:51	5

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Surrogate Summary

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-6352-1	B-28	84	83
890-6352-1 MS	B-28	108	97
890-6352-1 MSD	B-28	109	98
LCS 880-75630/1-A	Lab Control Sample	114	101
LCSD 880-75630/2-A	Lab Control Sample Dup	117	100
MB 880-75630/5-A	Method Blank	84	82

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	OTPH1
		(70-130)	(70-130)
890-6352-1	B-28	110	93
LCS 880-75608/2-A	Lab Control Sample	102	106
LCSD 880-75608/3-A	Lab Control Sample Dup	120	113
MB 880-75608/1-A	Method Blank	169 S1+	149 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-75630/5-A

Matrix: Solid

Analysis Batch: 75668

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/14/24 14:42	03/15/24 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/14/24 14:42	03/15/24 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/14/24 14:42	03/15/24 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/14/24 14:42	03/15/24 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/14/24 14:42	03/15/24 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/14/24 14:42	03/15/24 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/14/24 14:42	03/15/24 11:39	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/14/24 14:42	03/15/24 11:39	1

Lab Sample ID: LCS 880-75630/1-A

Matrix: Solid

Analysis Batch: 75668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08072		mg/Kg		81	70 - 130
Toluene	0.100	0.07484		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.08432		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1693		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08854		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-75630/2-A

Matrix: Solid

Analysis Batch: 75668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75630

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08051		mg/Kg		81	70 - 130	0	35
Toluene	0.100	0.07674		mg/Kg		77	70 - 130	3	35
Ethylbenzene	0.100	0.08612		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1719		mg/Kg		86	70 - 130	1	35
o-Xylene	0.100	0.08933		mg/Kg		89	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-6352-1 MS

Matrix: Solid

Analysis Batch: 75668

Client Sample ID: B-28

Prep Type: Total/NA

Prep Batch: 75630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09764		mg/Kg		98	70 - 130
Toluene	<0.00199	U	0.0996	0.09180		mg/Kg		92	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

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

Lab Sample ID: 890-6352-1 MS

Matrix: Solid

Analysis Batch: 75668

Client Sample ID: B-28

Prep Type: Total/NA

Prep Batch: 75630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1019		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1986		mg/Kg		100	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1001		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-6352-1 MSD

Matrix: Solid

Analysis Batch: 75668

Client Sample ID: B-28

Prep Type: Total/NA

Prep Batch: 75630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.08935		mg/Kg		89	70 - 130	9	35
Toluene	<0.00199	U	0.100	0.08177		mg/Kg		82	70 - 130	12	35
Ethylbenzene	<0.00199	U	0.100	0.08934		mg/Kg		89	70 - 130	13	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1749		mg/Kg		87	70 - 130	13	35
o-Xylene	<0.00199	U	0.100	0.08799		mg/Kg		88	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-75608/1-A

Matrix: Solid

Analysis Batch: 75655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/24 13:13	03/15/24 07:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/24 13:13	03/15/24 07:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/24 13:13	03/15/24 07:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	169	S1+	70 - 130	03/14/24 13:13	03/15/24 07:04	1
o-Terphenyl	149	S1+	70 - 130	03/14/24 13:13	03/15/24 07:04	1

Lab Sample ID: LCS 880-75608/2-A

Matrix: Solid

Analysis Batch: 75655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1173		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1165		mg/Kg		116	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

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

Lab Sample ID: LCS 880-75608/2-A

Matrix: Solid

Analysis Batch: 75655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75608

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-75608/3-A

Matrix: Solid

Analysis Batch: 75655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1155		mg/Kg		115	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1242		mg/Kg		124	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-75565/1-A

Matrix: Solid

Analysis Batch: 75601

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/14/24 13:19	1

Lab Sample ID: LCS 880-75565/2-A

Matrix: Solid

Analysis Batch: 75601

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243.6		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-75565/3-A

Matrix: Solid

Analysis Batch: 75601

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	244.5		mg/Kg		98	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

GC VOA

Prep Batch: 75630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6352-1	B-28	Total/NA	Solid	5035	
MB 880-75630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6352-1 MS	B-28	Total/NA	Solid	5035	
890-6352-1 MSD	B-28	Total/NA	Solid	5035	

Analysis Batch: 75668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6352-1	B-28	Total/NA	Solid	8021B	75630
MB 880-75630/5-A	Method Blank	Total/NA	Solid	8021B	75630
LCS 880-75630/1-A	Lab Control Sample	Total/NA	Solid	8021B	75630
LCSD 880-75630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75630
890-6352-1 MS	B-28	Total/NA	Solid	8021B	75630
890-6352-1 MSD	B-28	Total/NA	Solid	8021B	75630

Analysis Batch: 75829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6352-1	B-28	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 75608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6352-1	B-28	Total/NA	Solid	8015NM Prep	
MB 880-75608/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75608/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75608/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 75655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6352-1	B-28	Total/NA	Solid	8015B NM	75608
MB 880-75608/1-A	Method Blank	Total/NA	Solid	8015B NM	75608
LCS 880-75608/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75608
LCSD 880-75608/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75608

Analysis Batch: 75891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6352-1	B-28	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 75565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6352-1	B-28	Soluble	Solid	DI Leach	
MB 880-75565/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75565/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75565/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 75601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6352-1	B-28	Soluble	Solid	300.0	75565

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

HPLC/IC (Continued)

Analysis Batch: 75601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-75565/1-A	Method Blank	Soluble	Solid	300.0	75565
LCS 880-75565/2-A	Lab Control Sample	Soluble	Solid	300.0	75565
LCSD 880-75565/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75565

- 1
- 2
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- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

Client Sample ID: B-28

Date Collected: 03/13/24 11:40

Date Received: 03/13/24 12:20

Lab Sample ID: 890-6352-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	75630	03/14/24 14:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75668	03/15/24 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75829	03/15/24 12:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			75891	03/15/24 10:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	75608	03/14/24 13:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75655	03/15/24 10:40	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	75565	03/14/24 09:38	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	75601	03/14/24 14:51	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: SCB 23-14

Job ID: 890-6352-1

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	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: SCB 23-14

Job ID: 890-6352-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Arcadis US Inc.
Project/Site: SCB 23-14

Job ID: 890-6352-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6352-1	B-28	Solid	03/13/24 11:40	03/13/24 12:20

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



Environment Testing

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
Little Rock, AR (501) 224-5060

Work Order No: _____

Page 1 of 1

Project Manager:	Sarah Johnson	Bill to: (if different)	
Company Name:	Arcadis	Company Name:	
Address:	1004 W. Rig Springs Suite 300	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	931-436-0316	Email:	Sarah.Johnson@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: _____			

[illegible]

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn											
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA																							Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$95.00 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	
1				2	
3				4	
5				6	

Revised Date: 08/25 Rev. 2020

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-6352-1

Login Number: 6352

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-6352-1

Login Number: 6352

List Number: 2

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-6352-1

Login Number: 6352

List Number: 3

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/14/24 11:08 AM

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

Appendix D

NMOCD Work Plan Approval Email

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Monday, March 11, 2024 4:17 PM
To: Johnson, Sarah; Foord, Scott
Cc: Bratcher, Michael, EMNRD; Martinez, Armando
Subject: RE: [EXTERNAL] RE: Request for additional information for South Culebra Bluff Unit 23-14 [pAB1821142114]

Some people who received this message don't often get email from michael.buchanan@emnrd.nm.gov. [Learn why this is important](#)

Good morning,

The release area that occurred off pad will be required to be remediated to the reclamation standards of 600 mg/L for chlorides and 100 mg/L for TPH for the top four (4) feet, but you meet the 51-100' standard on pad. Also, please collect samples at the 4' level in the excavation.

Thank you,

From: Johnson, Sarah <Sarah.Johnson@arcadis.com>
Sent: Monday, March 11, 2024 8:23 AM
To: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>; Foord, Scott <William.Foord@arcadis.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Martinez, Armando <amarti@chevron.com>
Subject: RE: [EXTERNAL] RE: Request for additional information for South Culebra Bluff Unit 23-14 [pAB1821142114]

Good Morning,

To clarify my email below, we are just looking for approval to follow remediation standards for sites with depth to groundwater between 51-100 in regards to soil.

We can discuss site specific screening levels for groundwater at a later date.

Thank you!

Sarah

From: Johnson, Sarah
Sent: Monday, March 11, 2024 8:55 AM
To: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>; Foord, Scott <William.Foord@arcadis.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Martinez, Armando <amarti@chevron.com>
Subject: RE: [EXTERNAL] RE: Request for additional information for South Culebra Bluff Unit 23-14 [pAB1821142114]

Good Morning,

I hope yall had a great weekend. Just wanted to check in to see if yall had a chance to review this one? We currently have the excavation open and on hold until we hear back from yall.

Thank you!

Sarah Johnson | AFS Certified Project Manager

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T. +1 432 227 0266 | M. +1 931 436 0316

www.arcadis.com



From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

Sent: Friday, March 8, 2024 10:04 AM

To: Foord, Scott <William.Foord@arcadis.com>; Johnson, Sarah <Sarah.Johnson@arcadis.com>

Subject: RE: [EXTERNAL] RE: Request for additional information for South Culebra Bluff Unit 23-14 [pAB1821142114]

Some people who received this message don't often get email from michael.buchanan@emnrd.nm.gov. [Learn why this is important](#)

Great. Thank you both for the info! I'll be talking with Mike today to get you a response soon.

From: Foord, Scott <William.Foord@arcadis.com>

Sent: Friday, March 8, 2024 6:20 AM

To: Johnson, Sarah <Sarah.Johnson@arcadis.com>; Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

Cc: Martinez, Armando <amarti@chevron.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: [EXTERNAL] RE: Request for additional information for South Culebra Bluff Unit 23-14 [pAB1821142114]

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mike,

Here's a photo of the excavation area as of yesterday.

Thanks,

Scott

Direct 713-953-4853

Cell 281-725-7477

From: Johnson, Sarah <Sarah.Johnson@arcadis.com>

Sent: Thursday, March 7, 2024 5:36 PM

To: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>; Foord, Scott <William.Foord@arcadis.com>

Cc: Martinez, Armando <amarti@chevron.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: RE: Request for additional information for South Culebra Bluff Unit 23-14 [pAB1821142114]

Mike,

The attached kmz is representative of the release area and what has currently been excavated with color coded depths. Let me know if you have any questions.

Thank you!

Sarah Johnson | AFS Certified Project Manager

Arcadis | Arcadis U.S., Inc.

T. +1 432 227 0266 | M. +1 931 436 0316

www.arcadis.com

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Thursday, March 7, 2024 5:00 PM
To: Foord, Scott <William.Foord@arcadis.com>
Cc: Johnson, Sarah <Sarah.Johnson@arcadis.com>; Martinez, Armando <amarti@chevron.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Request for additional information for South Culebra Bluff Unit 23-14 [pAB1821142114]

Some people who received this message don't often get email from michael.buchanan@emnrd.nm.gov. [Learn why this is important](#)

Good afternoon, Scott

Following up from our meeting, I have a couple of requests for OCD's decision process. If you would, please send Mike Bratcher and I the following at your earliest convenience:

- 1) A diagram of the total area that has been excavated with the depths included
- 2) A diagram of the release footprint

Thank you,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.490.0798 | michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oce>



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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 447982

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 447982
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1821142197
Incident Name	NAB1821142197 SOUTH CULEBRA BLUFF UNIT 23 #14 - GWA @ 30-015-33607
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-33607] SOUTH CULEBRA BLUFF 23 #014

Location of Release Source

Please answer all the questions in this group.

Site Name	SOUTH CULEBRA BLUFF UNIT 23 #14 - GWA
Date Release Discovered	07/14/2018
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	Yes

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Crude Oil Released: 132 BBL Recovered: 60 BBL Lost: 72 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Other (Specify) Released: 0 BBL Recovered: 20 BBL Lost: -20 BBL.
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, Page 2

Action 447982

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 447982
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (4) a release of a volume that may with reasonable probability be detrimental to fresh water; (?) reported amounts release resulting in negative volume.
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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/02/2025
--	---

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QUESTIONS, Page 3

Action 447982

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	447982
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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	Between 1 and 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 500 and 1000 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	7940
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	43612
GRO+DRO (EPA SW-846 Method 8015M)	1690
BTEX (EPA SW-846 Method 8021B or 8260B)	306
Benzene (EPA SW-846 Method 8021B or 8260B)	5

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/19/2024
On what date will (or did) the final sampling or liner inspection occur	03/14/2024
On what date will (or was) the remediation complete(d)	03/14/2024
What is the estimated surface area (in square feet) that will be reclaimed	5800
What is the estimated volume (in cubic yards) that will be reclaimed	2580
What is the estimated surface area (in square feet) that will be remediated	5800
What is the estimated volume (in cubic yards) that will be remediated	2580

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, Page 4

Action 447982

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	447982
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/02/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 447982

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 447982
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 447982

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	447982
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	322494
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/14/2024
What was the (estimated) number of samples that were to be gathered	105
What was the sampling surface area in square feet	16870

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	5800
What was the total volume (cubic yards) remediated	2580
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	5800
What was the total volume (in cubic yards) reclaimed	2580
Summarize any additional remediation activities not included by answers (above)	N/A

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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/02/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 7

Action 447982

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 447982
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 447982

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 447982
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The remediation closure is approved.	4/4/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/4/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/4/2025
michael.buchanan	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.	4/4/2025
michael.buchanan	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.	4/4/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	4/4/2025