

Jal Landfarm

[fEEM0112332673]

**Release Response
Sampling Results and
Action Plan-July 2024**

**[4323] Chevron
Environmental
Management Company**

Oct 2024



Chevron Environmental Management Company

Release Response Sampling Results and Action Plan – July 2024

Jal Landfarm, Permit NM-02-0012

Centralized Surface Waste Management Facility

Lea County, New Mexico

October 2024

Release Response Sampling Results and Action Plan – July 2024

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Jal Landfarm, Permit NM-02-0012
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Lea County, New Mexico

October 2024

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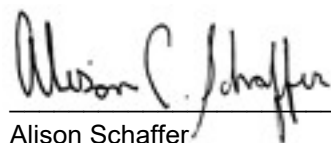
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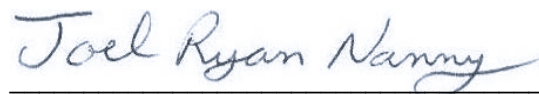
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Acronyms and Abbreviations

Arcadis	Arcadis U.S., Inc.
BTEX	benzene, toluene, ethylbenzene, and xylenes
CEMC	Chevron Environmental Management Company
DRO	diesel range organics
GRO	gasoline range organics
mg/kg	milligram per kilogram
NMAC	New Mexico Administrative Code
NMOCD	New Mexico Oil Conservation Division
ORO	oil range organics
Part 36	19.15.36 New Mexico Administrative Code
PCB	polychlorinated biphenyl
PQL	practical quantification limit
SDL	sample detection limit
Site	Jal Landfarm, a centralized surface waste management facility (permit NM-02-0012) located in Lea County, New Mexico
SVOC	semivolatile organic compound
TPH	total petroleum hydrocarbons
Transitional Provisions	19.15.36.20 New Mexico Administrative Code, Transitional Provisions
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

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1 Introduction

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this Release Response Sampling Results and Action Plan for the Jal Landfarm, a centralized surface waste management facility (permit NM-02-0012) located in Lea County, New Mexico (Site; Figure 1).

On August 2, 1999, the New Mexico Oil Conservation Division (NMOCD) issued Texaco Exploration & Production, Inc. (a legacy company of Chevron North America Exploration & Production Company) permit NM-02-0012, under Rule 711, to construct and operate a surface waste management facility (NMOCD 1999). The permit was subsequently amended on March 26, 2003 and April 1, 2004 (NMOCD 2003, 2004). On February 14, 2007, Rule 711 was repealed and replaced by 19.15.36 New Mexico Administrative Code (NMAC; February 14, 2007, as amended through June 30, 2016), commonly referred to as Part 36. On September 3, 2020, Arcadis submitted a minor permit modification request (Arcadis 2020b) that permitted future site activities to be conducted in accordance with Part 36 requirements in lieu of the requirements of provision 19.15.36.20 of Part 36 (Transitional Provisions), and the NMOCD approved the request on December 24, 2020 (NMOCD 2020). Starting in 2021, the Site was operated in accordance with the requirements specified in permit NM-02-0012 and Part 36.

1.1 Overview

The Site is located approximately 4.5 miles northwest of Jal, New Mexico (west half of Section 17, Township 24 south, Range 36 east) north of Cooper Cemetery Road (Figure 1). The Site consists of 26 constructed cells (Cells 1 through 26), each of which is approximately 300 by 625 feet (approximately 4.3 acres); however, only seven cells are actively maintained (Cells 17, 18, 19, 20, 21, 25, and 26).

As specified in 19.15.36.15 NMAC, active landfarms require routine operation, maintenance, and monitoring to remediate impacted soils and verify that petroleum-related impacts do not migrate into the vadose zone. As part of the vadose zone monitoring program, site operators are required to monitor for potential releases of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and chloride into the vadose zone. According to 19.15.36.15.E(5) NMAC, a release is defined as “concentrations of TPH, BTEX, or chlorides [that] exceed the higher of the practical quantification limit (PQL) or the background soil concentrations.”

To establish background conditions in accordance with Part 36 requirements, background sampling and analysis was performed at the Site in March 2021 in accordance with the Background Sampling and Analysis Plan (Arcadis 2020a). Background values are presented in the Background Sampling Report (Arcadis 2021), which the NMOCD approved on May 27, 2022 (NMOCD 2022).

As specified in 19.15.36.15.E(5) NMAC, if a release is identified, “then the operator shall notify the division’s environmental bureau of the exceedance and shall immediately collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides, and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC. The operator shall submit the results of the re-sampling event and a response action plan for the division’s approval within 45 days of the initial notification. The response action plan shall address changes in the landfarm’s operation to prevent further contamination and, if necessary, a plan for remediating existing contamination.”

The first semiannual 2024 soil sampling event was performed in May 2024. Results of the vadose zone sampling showed exceedances of the background soil concentrations or PQLs (i.e., sample detection limits [SDLs]) at

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select cells; therefore, the release response process was initiated. A release response sampling event was performed in July 2024.

1.2 Document Purpose

The purpose of this document is to provide a summary of the May 2024 vadose zone sampling event and the July 2024 release response sampling event and associated results, and to provide a continued release response action plan to address the release of petroleum-related impacts in the vadose zone at the Site.

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2 May 2024 Vadose Zone Sampling

The May 2024 vadose zone sampling event was performed from April 30 through May 1, 2024 and from May 8 through May 9, 2024. Partway through the sampling event, sampling had to be postponed due to a medical emergency of one of the field staff (unrelated to the sampling event). During the sampling event, four randomly selected, discrete soil samples were collected from the vadose zone of each active cell (Cells 17, 18, 19, 20, 21, 25, and 26). Samples were collected at a depth of approximately 3 to 4 feet below native ground surface. The May 2024 sampling locations are shown on Figure 2.

2.1 May 2024 Vadose Zone Sampling Methods

Prior to sample collection, an approximately 5- by 5-foot area of treatment zone soil was removed using a backhoe to minimize the potential for cross-contamination. The backhoe bucket was then decontaminated using an Alconox® solution and a pressure washer with potable rinse water. After decontamination was complete, the backhoe bucket was used to remove an additional 6 inches of native soil and approximately 1.5 feet of caliche from the sampling location. Once the desired sampling depth was achieved, the backhoe was used to collect representative soil from the vadose zone from which the soil sample was then collected. Soil samples were placed into 4-ounce, laboratory-supplied sample jars, which were labeled and shipped on ice to Eurofins Environment Testing (Eurofins) laboratory in Midland, Texas for analysis.

After each discrete sample was collected, the sampling location was backfilled with the excavated soil in the order in which it was removed. The backhoe bucket was decontaminated between collection of each discrete sample using a hard bristle scrub brush with an Alconox® solution and rinsed utilizing a pressure washer with potable rinse water.

Soil samples were analyzed for the following constituents:

- TPH as diesel range organics (DRO), gasoline range organics (GRO), and oil range organics (ORO) by United States Environmental Protection Agency (USEPA) Method 8015D or 8015B NM. As agreed in a February 2, 2019 meeting between representatives from NMOCD, CEMC, and Arcadis, TPH is represented as the sum of the DRO, GRO, and ORO fractions.
A miscommunication with Eurofins resulted in DRO, GRO, and ORO being analyzed by two different methods during this event. Thirteen samples collected on April 30 and May 1, 2024 (SDGs J42943-1 and J42901-1) were sent to Eurofins Houston and Eurofins Chicago for analysis using by USEPA Method 8015D. The other 15 samples collected on May 8 and 9, 2024 (SDGs J43273-1 and J43330-1) were analyzed at Eurofins Midland using USEPA Method 8015B NM. Although both methods are appropriate for DRO, GRO, and ORO analysis, the method detection limits differ.
- BTEX by USEPA Method 8260C or 8021B. Similar to TPH, the samples collected on April 30 and May 1, 2024 (SDGs J42943-1 and J42901-1) were sent to Eurofins Houston for analysis of BTEX by USEPA Method 8260C. The samples collected on May 8th and 9th, 2024 (SDGs J43273-1 and J43330-1) were analyzed at Eurofins Midland using USEPA Method 8021B. Although both methods are appropriate for BTEX analysis, the method detection limits differ.
- Chloride by USEPA Method 300.0.

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2.2 May 2024 Vadose Zone Sampling Results

Analytical results from the May 2024 vadose zone sampling event are provided in Table 1. Laboratory reports are provided in Appendix A.

As discussed in Section 1.1 and specified in 19.15.36.15.E(5) NMAC, vadose zone analytical results for TPH, BTEX, and chloride were compared to the higher of the SDL or background soil concentration, provided in the approved Background Sampling Report (Arcadis 2021), to determine whether a release had occurred. The results are summarized below.

- **TPH:** The GRO concentration in Cell 17 (3.52 J¹ milligrams per kilogram [mg/kg]) was detected above the background soil concentration (0.0822 mg/kg).
 - GRO concentrations of the 15 samples collected on May 8 and 9, 2024 (SDGs J43273-1 and J43330-1) were elevated due to the different method used to analyze for GRO (USEPA Method 8015B NM; see Section 2.1). For reference, GRO concentrations analyzed using Method 8015D ranged from non-detect at a method detection limit of 2.69 mg/kg to 3.52 J mg/kg, whereas GRO concentrations analyzed using Method 8015B NM ranged from 13.3 JB² mg/kg to 46.7 JB.
 - DRO and ORO concentrations were below the background soil concentrations or SDL in all cells.
- **BTEX:** BTEX concentrations were below the background soil concentrations or SDL in all cells.
- **Chloride:** Chloride concentrations in Cell 17 (439, 495, and 704 mg/kg) and Cell 18 (70.2 mg/kg) were detected above the background soil concentration (53.7 mg/kg).

In response to GRO and chloride detected at concentrations above the background soil concentrations, release response sampling was performed at Cell 17 (surrounding Squares 5, 25, and 43) and Cell 18 (surrounding Square 141) in July 2024, as described in Section 3.

Due to the elevated GRO concentrations in the samples collected on May 8 and 9, 2024 (SDGs J43273-1 and J43330-1), 13 of the locations (Cells 17, 21, 25, and 26) were resampled in July 2024 and analyzed for GRO using USEPA Method 8015D, consistent with the samples collected on April 30 and May 1, 2024.

GRO analytical results from the July 2024 resampling event are provided in Table 1. Laboratory reports are provided in Appendix B. In all samples, GRO concentrations were non-detect below the SDL. Therefore, additional release response sampling was not required.

3 July 2024 Release Response Soil Sampling

Release response sampling was performed from July 16 through 17, 2024 in response to GRO and chloride detected at concentrations above the background soil concentrations in the vadose zone.

¹ J = Result is less than the method quantitation limit but greater than or equal to the SDL and the concentration is an estimated value.

² B = Compound was found in the blank and sample.

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3.1 July 2024 Release Response Soil Sampling Methods

Four randomly selected, discrete vadose zone soil samples were collected around each sampling location that exhibited constituent concentrations above background soil concentrations during the May 2024 sampling event.³ A total of 10 discrete samples were collected: five samples from Cell 17 (surrounding Squares 5, 25, and 43), four samples from Cell 18 (one surrounding Cell 17 Square 43 and three surrounding Cell 18 Square 141), and one sample from Cell 21 (surrounding Cell 17 Square 5). The July 2024 sampling locations are shown on Figure 3. The samples were collected following the methodology described in Section 2.1.

The release response samples were analyzed for the following constituents:

- TPH as DRO, GRO, and ORO by USEPA Method 8015D. TPH is represented as the sum of the DRO, GRO, and ORO fractions.
- BTEX by USEPA Method 8260C.
- Chloride by USEPA Method 9056A.
- Constituents listed in Subsections A and B of 20.6.2.3103 NMAC.

3.2 July 2024 Release Response Soil Sampling Results

Analytical results from the July 2024 release response sampling event are provided in Tables 2 through 9. Laboratory reports are provided in Appendix B.

As discussed in Section 1.1 and specified in 19.15.36.15.E(5) NMAC, vadose zone analytical results for TPH, BTEX, chloride, and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC were compared to the higher of the SDL or background soil concentration provided in the approved Background Sampling Report (Arcadis 2021). The results of the release response sampling are summarized in Table 10, below, which lists the constituents that exceed the SDLs or background soil concentrations.

Table 10. Summary of Constituents that Exceed the SDLs or Background Soil Concentrations

Cell	Metals	VOCs	SVOCs	PCBs	Other Constituents	Radium	Pesticides
Cell 17	Arsenic, beryllium, chromium, copper, iron, lead, manganese, selenium, zinc	None	None	None	Chloride, Nitrate, nitrite, nitrate/nitrite sulfate, fluoride, perchlorate	Radium-226, Combined Radium-226 + 228	None

³ If a discrete soil sample was previously collected from the area surrounding the potential release, then a new sample was not collected.

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Cell	Metals	VOCs	SVOCs	PCBs	Other Constituents	Radium	Pesticides
Cell 18	Selenium	None	None	None	Nitrate, nitrite, nitrate/nitrite, perchlorate	Radium-226, Combined Radium-226 + 228	None
Cell 21	None	None	None	None	Nitrate	None	None

Notes:

PCB = polychlorinated biphenyl

SVOC = semivolatile organic compound

VOC = volatile organic compound

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4 Release Response Action Plan

The July 2024 release response sampling results demonstrate an unauthorized release to the vadose zone, as defined by provision 19.15.36.15.E(5) NMAC. CEMC will address the release of constituents of concern into the vadose zone in accordance with provision 19.15.29 NMAC (Part 29), which will include additional site assessment and characterization, remediation (if required), and closure.

No new waste material has been added to the Site since 2007 and tilling was discontinued in December 2020. The Site will continue to be managed in accordance with permit NM-02-12 and Part 36 requirements and will include semiannual treatment zone and vadose zone monitoring and monthly site inspections and maintenance (as needed).

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5 References

- Arcadis. 2020a. Final Background Sampling and Analysis Plan. Jal Landfarm NM-02-0012, Centralized Surface Waste Management Facility, Lea County, New Mexico. June 15.
- Arcadis. 2020b. Minor Permit Modification Request. Jal Landfarm NM-02-0012, Centralized Surface Waste Management Facility, Lea County, New Mexico. September 3.
- Arcadis. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.
- NMOCD. 1999. OCD Rule 711 Permit Approval NM-01-0012 & NM-02-0013. August 2.
- NMOCD. 2003. Letter from R. Anderson (NMOCD) to R. Bailey (Chevron Texaco) re: Texaco E&P Inc. OCD Rule 711 Permit Approval NM-02-0012. March 26.
- NMOCD. 2004. Letter from R. Anderson (NMOCD) to R. Bailey (Chevron) re: Chevron USA Inc. Surface Water Management Facility Permits NM-02-0012 and NM-02-0013. April 1.
- NMOCD. 2020. Letter from B. Jones (NMOCD) to R. Speer (Chevron) re: Approval of Permit Minor Modification and Exception Requests Jal Landfarm, Permit NM2-012. December 24.
- NMOCD. 2022. Letter from B. Jones (NMOCD) to A. Martinez (Chevron) re: Approval of the Background Sampling Report. Jal Landfarm, Permit MN2-012. May 27.

Tables

Table 1
May and July 2024 Vadose Zone Soil Sampling Analytical Results
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Lea County, New Mexico



Constituent Method Unit Background Soil Concentration				DRO SW846 8015D/8015B NM mg/kg 36.2		GRO SW846 8015D/8015B NM mg/kg 0.0822		ORO SW846 8015D/8015B NM mg/kg 36.2		TPH* -- mg/kg --		Benzene SW846 8260C/8021B mg/kg 0.000631		Toluene SW846 8260C/8021B mg/kg 0.000902		Ethylbenzene SW846 8260C/8021B mg/kg 0.000451		Xylenes SW846 8260C/8021B mg/kg 0.000501		Chloride EPA 300.0 mg/kg 53.7	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell 17-Square 43-S-3-4-240501	05/01/2024	3.10	J B	3.52	J	13.4	U	20.0	--	0.000413	U	0.00131	U	0.000329	U	0.000467	U	439	--
Cell 17	Vadose	Cell 17 Square 5-S-3-4-24050808	05/08/2024	24.2	J B	46.7	J B	12.5	U	83.4	--	0.00138	U	0.00198	U	0.00108	U	0.00226	U	704	--
Cell 17	Vadose	Cell 17 Square 25-S-3-4-240508	05/08/2024	18.3	J B	42.2	J B	12.5	U	73.0	--	0.00138	U	0.00199	U	0.00108	U	0.00227	U	495	--
Cell 17	Vadose	Cell 17 Square 201-S-3-4-240508	05/08/2024	16.5	J B	39.8	J B	12.5	U	68.8	--	0.00140	U	0.00201	U	0.00109	U	0.00229	U	18.3	--
Cell 17	Vadose Resample	Cell 17 Square 201-S-3-4-240718	07/18/2024	--	--	2.60	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 18	Vadose	Cell18-Square 3-S-3-4-240430	04/30/2024	2.16	J B	2.69	U	12.6	U	17.5	--	0.000409	U	0.00129	U	0.000325	U	0.000463	U	5.32	U
Cell 18	Vadose	Cell 18-Square 42-S-3-4-240501	05/01/2024	6.72	J B	3.18	U	19.4	J	29.3	--	0.000488	U	0.00155	U	0.000388	U	0.000552	U	6.96	J
Cell 18	Vadose	Cell 18-Square 95-S-3-4-240501	05/01/2024	2.36	J B	2.76	U	13.8	J	18.9	--	0.000420	U	0.00133	U	0.000334	U	0.000476	U	18.1	--
Cell 18	Vadose	Cell 18-Square 141-S-3-4-240501	05/01/2024	3.40	J B	2.74	U	13.9	J	20.0	--	0.000424	U	0.00134	U	0.000337	U	0.000480	U	70.2	--
Cell 19	Vadose	Cell19-Square 2-S-3-4-240430	04/30/2024	2.64	J B	2.74	U	13.8	U	19.2	--	0.000423	U	0.00134	U	0.000337	U	0.000479	U	8.69	J
Cell 19	Vadose	Cell19-Square 32-S-3-4-240430	04/30/2024	3.35	J B	2.72	U	13.3	U	19.4	--	0.000421	U	0.00133	U	0.000335	U	0.000476	U	36.0	--
Cell 19	Vadose	Cell19-Square 54-S-3-4-240430	04/30/2024	2.99	J B	2.78	U	13.4	U	19.2	--	0.000426	U	0.00135	U	0.000339	U	0.000482	U	6.31	J
Cell 19	Vadose	Cell19-Square 65-S-3-4-240430	04/30/2024	3.00	J B	2.99	U	14.9	U	20.9	--	0.000461	U	0.00146	U	0.000367	U	0.000522	U	21.2	--
Cell 20	Vadose	Cell20-Square 10-S-3-4-240430	04/30/2024	2.09	J B	2.77	U	13.7	U	18.6	--	0.000426	U	0.00135	U	0.000339	U	0.000482	U	5.53	U
Cell 20	Vadose	Cell20-Square 31-S-3-4-240430	04/30/2024	4.84	J B	3.59	U	23.7	J	32.1	--	0.000543	U	0.00172	U	0.000432	U	0.000615	U	17.4	--
Cell 20	Vadose	Cell20-Square 63-S-3-4-240430	04/30/2024	2.41	J B	3.02	U	15.2	U	20.6	--	0.000461	U	0.00146	U	0.000367	U	0.000521	U	6.05	U
Cell 20	Vadose	Cell20-Square 181-S-3-4-240430	04/30/2024	2.27	J B	2.77	U	14.1	J	19.1	--	0.000421	U	0.00133	U	0.000335	U	0.000476	U	10.7	J
Cell 21	Vadose	Cell 21 Square98-S-3-4-240509	05/09/2024	15.0	U F1	24.6	J B	12.5	U	52.1	J B	0.00140	U	0.00201	U	0.00109	U	0.00229	U	11.6	--
Cell 21	Vadose	Cell 21 Square 120-S-3-4-240508	05/08/2024	14.9	U	17.8	J	13.8	J	46.5	J	0.00140	U	0.00202	U	0.00110	U	0.00230	U	13.6	--
Cell 21	Vadose	Cell 21 Square 124-S-3-4-240508	05/08/2024	15.0	U	18.1	J	13.5	J	46.6	J	0.00139	U	0.00200	U	0.00109	U	0.00229	U	0.397	U
Cell 21	Vadose	Cell 21 Square 126-S-3-4-240508	05/08/2024	14.9	U	16.4	J	16.6	J	47.9	J	0.00141	U	0.00202	U	0.00110	U	0.00231	U	2.51	J
Cell 21	Vadose Resample	Cell 21 Square 98-S-3-4-240718	07/18/2024	--	--	2.67	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 21	Vadose Resample	Cell 21 Square120-S-3-4-240718	07/18/2024	--	--	2.90	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 21	Vadose Resample	Cell 21 Square124-S-3-4-240718	07/18/2024	--	--	2.62	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 21	Vadose Resample	Cell 21 Square126-S-3-4-240718	07/18/2024	--	--	2.60	U	--	--	--	--	--	--	--	--	--	--	--	--	--	--

-- = not applicable
DRO = diesel range organics
EPA = U.S. Environmental Protection Agency
GRO = gasoline range organics
ID = identification
mg/kg = milligram per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates
TPH = total petroleum hydrocarbons

Qualifiers:
B = Compound was found in the blank and sample.
F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits.
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

Reference:
Arcadis. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

Table 2
July 2024 Release Response Soil Sampling Analytical Results: TPH, BTEX, and Chloride
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent Method Unit Background Soil Concentration				DRO SW846 8015D mg/kg 36.2		GRO SW846 8015D mg/kg 0.0822		ORO SW846 8015D mg/kg 36.2		TPH ^a -- mg/kg --		Benzene SW846 8260C mg/kg 0.000631		Toluene SW846 8260C mg/kg 0.000902		Ethylbenzene SW846 8260C mg/kg 0.000451		Xylenes SW846 8260C mg/kg 0.000501		Chloride SW846 9056A mg/kg 53.7	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square64-S-3-4-240716	7/16/2024	6.98	J B	2.62	U	12.9	J B	22.5	--	0.000381	U	0.00121	U	0.000303	U	0.000431	U	611	--
Cell 17	Vadose	Cell17-Square44-S-3-4-240716	7/16/2024	4.18	J B	2.64	U	11.5	J B	18.3	--	0.000384	U	0.00122	U	0.000306	U	0.000435	U	208	--
Cell 17	Vadose	Cell17-Square24-S-3-4-240716	7/16/2024	3.15	J B	2.72	U	10.0	J B	15.9	--	0.000379	U	0.00120	U	0.000302	U	0.000429	U	148	--
Cell 17	Vadose	Cell17-Square4-S-3-4-240716	7/16/2024	3.29	J B	2.69	U	9.44	J B	15.4	--	0.000384	U	0.00122	U	0.000306	U	0.000435	U	536	--
Cell 17	Vadose	Cell17-Square6-S-3-4-240717	7/17/2024	3.24	J B	2.62	U	13.2	J B	19.1	--	0.000385	U	0.00122	U	0.000306	U	0.000436	U	402	--
Cell 18	Vadose	Cell18-Square140-S-3-4-240717	7/17/2024	2.62	U	2.72	U	8.95	U	14.3	--	0.000382	U	0.00121	U	0.000304	U	0.000432	U	44.4	--
Cell 18	Vadose	Cell18-Square120-S-3-4-240717	7/17/2024	3.02	J B	2.69	U	8.73	U	14.4	--	0.000382	U	0.00121	U	0.000304	U	0.000432	U	5.31	J
Cell 18	Vadose	Cell18-Square142-S-3-4-240717	7/17/2024	2.64	U	2.68	U	9.01	U	14.3	--	0.000380	U	0.00120	U	0.000303	U	0.000430	U	4.96	U
Cell 18	Vadose	Cell18-Square63-S-3-4-240717	7/17/2024	3.63	J B	2.66	U	11.5	J B	17.8	--	0.000381	U	0.00121	U	0.000303	U	0.000431	U	4.98	U
Cell 21	Vadose	Cell21-Square194-S-3-4-240717	7/17/2024	2.61	U	2.67	U	8.93	U	14.2	--	0.000382	U	0.00121	U	0.000304	U	0.000432	U	16.6	--

Notes:

^a TPH is the sum of the DRO, GRO, and ORO fractions (note that non-detect values are included in the summation at the SDL).

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

3. Detected values highlighted in gray exceed the SDL or background soil concentrations (Arcadis 2021).

-- = not applicable

DRO = diesel range organics

GRO = gasoline range organics

ID = identification

mg/kg = milligram per kilogram

MQL = method quantitation limit

NMAC = New Mexico Administrative Code

ORO = oil range organics

SDL = sample detection limit

TPH = total petroleum hydrocarbons

SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

Qualifiers:

B = The compound was found in the blank and sample

J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

U = Analyte was not detected at or above the SDL.

Reference:

Arcadis. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

Table 3
July 2024 Release Response Soil Sampling Analytical Results: Metals
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent Method Unit Background Soil Concentration				Antimony SW846 6020A mg/kg 1.93		Arsenic SW846 6020A mg/kg 4.28		Barium SW846 6020A mg/kg 636		Beryllium SW846 6020A mg/kg 0.45		Cadmium SW846 6020A mg/kg 0.095		Chromium SW846 6020A mg/kg 6.31		Copper SW846 6020A mg/kg 2.67		Iron SW846 6020A mg/kg 6,731		Lead SW846 6020A mg/kg 5.64	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.888	U	4.58	--	297	--	0.211	U	0.223	U	2.56	--	1.87	--	1,980	--	1.06	--
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	1.82	--	2.77	--	75.2	--	0.502	J	0.226	U	11.7	--	5.53	--	10,000	--	5.72	--
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.888	U	3.49	--	403	--	0.211	U	0.223	U	2.75	--	2.05	--	2,070	--	1.10	--
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.918	U	5.08	--	295	--	0.218	U	0.230	U	2.46	--	1.55	J	2,000	--	1.24	--
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.903	U	4.43	--	320	--	0.214	U	0.226	U	2.54	--	1.45	J	2,280	--	1.33	--
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.888	U	3.47	--	245	--	0.326	J	0.223	U	2.93	--	1.51	J	2,820	--	2.70	--
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.888	U	2.82	--	278	--	0.219	J	0.223	U	3.03	--	1.18	J	2,850	--	2.41	--
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.903	U	2.93	--	216	--	0.214	U	0.226	U	3.45	--	1.63	J	3,080	--	2.26	--
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.888	U	2.93	--	383	--	0.211	U	0.223	U	2.74	--	1.47	J	2,460	--	2.08	--
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.918	U	4.13	--	302	--	0.218	U	0.230	U	1.94	--	1.46	J	1,570	--	1.05	--

- Notes:**
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 - 3. Detected values highlighted in gray exceed the SDL or background soil concentrations (Arcadis 2021).

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mg/kg = milligram per kilogram
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NMAC = New Mexico Administrative Code
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SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

Qualifiers:

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Table 3
July 2024 Release Response Soil Sampling Analytical Results: Metals
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent Method Unit Background Soil Concentration				Manganese SW846 6020A mg/kg 58.3		Mercury SW846 7471B mg/kg 0.0322		Uranium SW846 6020A mg/kg 0.686		Selenium SW846 6020A mg/kg 0.279		Silver SW846 6020A mg/kg 0.723		Thallium SW846 6020A mg/kg 1.93		Zinc SW846 6020A mg/kg 12.9	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	17.0	--	0.0106	J	0.490	--	0.394	U	0.199	U	0.225	U	5.04	--
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	133	--	0.0131	J	0.276	J	0.991	--	0.365	J	0.228	U	24.8	--
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	17.5	--	0.0124	J	0.445	--	0.394	U	0.199	U	0.225	U	5.43	--
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	17.7	--	0.00814	U	0.615	--	0.407	U	0.206	U	0.232	U	5.37	--
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	18.5	--	0.00829	U	0.530	--	0.400	U	0.203	U	0.228	U	5.19	--
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	33.5	--	0.0117	J	0.404	J	0.471	J	0.199	U	0.225	U	7.13	--
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	21.9	--	0.0131	J	0.380	J	0.394	U	0.199	U	0.225	U	6.46	--
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	36.8	--	0.0103	J	0.428	--	0.400	U	0.203	U	0.228	U	7.41	--
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	20.3	--	0.0158	J	0.374	J	0.394	U	0.199	U	0.225	U	5.59	--
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	16.1	--	0.00991	J	0.484	--	0.407	U	0.206	U	0.232	U	4.14	--

- Notes:
1. Non-detect values are reported to the SDL specified in the laboratory reports.
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 3. Detected values highlighted in gray exceed the SDL or background soil concentrations (Arcadis 202

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SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

Qualifiers:

J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
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Reference:

Arcadis. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

Table 4
July 2024 Release Response Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1 Dichloroethene		1,2,4-Trichlorobenzene		1,2-Dichlorobenzene (o-Dichlorobenzene)	
Method				SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.000501		0.000381		0.000501		0.000591		0.000501		0.000972		0.000251	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.00100	U	0.000354	U	0.00100	U	0.00100	U	0.000576	U	0.00101	U	0.00146	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.00101	U	0.000355	U	0.00101	U	0.00101	U	0.000577	U	0.00101	U	0.00146	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.000992	U	0.00035	U	0.000992	U	0.000992	U	0.000569	U	0.000998	U	0.00144	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.00100	U	0.000354	U	0.00100	U	0.00100	U	0.000576	U	0.00101	U	0.00146	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.000996	U	0.000351	U	0.000996	U	0.000996	U	0.000571	U	0.00100	U	0.00145	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.000996	U	0.000351	U	0.000996	U	0.000996	U	0.000571	U	0.00100	U	0.00145	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.000998	U	0.000352	U	0.000998	U	0.000998	U	0.000572	U	0.00100	U	0.00145	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.000998	U	0.000352	U	0.000998	U	0.000998	U	0.000572	U	0.00100	U	0.00145	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.000994	U	0.000351	U	0.000994	U	0.000994	U	0.00057	U	0.00100	U	0.00144	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.000998	U	0.000352	U	0.000998	U	0.000998	U	0.000572	U	0.00100	U	0.00145	U

Notes:

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

ID = identification

mg/kg = milligram per kilogose

NMAC = New Mexico Administrative Code

SDL = sample detection limit

SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

VOC = volatile organic compound

Qualifiers:

U = Analyte was not detected at or above the SDL.

Table 4
July 2024 Release Response Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				1,2-Dibromoethane		1,2-Dichloroethane		1,2-Dichloropropane		1,4-Dichlorobenzene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene	
Method				SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.000301		0.000521		0.000501		0.000321		0.000511		0.000872		0.000571	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.000527	U	0.00100	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.00101	U	0.00101	U	0.00101	U	0.00101	U	0.00101	U	0.000528	U	0.00101	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.000992	U	0.000992	U	0.000992	U	0.000992	U	0.000992	U	0.000520	U	0.000992	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.000527	U	0.00100	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000522	U	0.000996	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000522	U	0.000996	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000523	U	0.000998	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000523	U	0.000998	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.000994	U	0.000994	U	0.000994	U	0.000994	U	0.000994	U	0.000521	U	0.000994	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000523	U	0.000998	U

Notes:

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

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Qualifiers:

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Table 4
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Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent Method Unit Background Soil Concentration				Methylene chloride (Dichloromethane) SW846 8260C mg/kg 0.00501		Methyl-t-butyl ether SW846 8260C mg/kg 0.000611		Styrene SW846 8260C mg/kg 0.000301		Tetrachloroethene SW846 8260C mg/kg 0.000741		trans-1,2-Dichloroethene SW846 8260C mg/kg 0.000501		Trichloroethene (Trichloroethylene) SW846 8260C mg/kg 0.000281		Vinyl chloride (Chloroethene) SW846 8260C mg/kg 0.000601	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.00845	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.000626	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.00847	U	0.00101	U	0.00101	U	0.00101	U	0.00101	U	0.00101	U	0.000627	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.00835	U	0.000992	U	0.000992	U	0.000992	U	0.000992	U	0.000992	U	0.000619	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.00845	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.000626	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.00839	U	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000621	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.00839	U	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000621	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.00840	U	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000622	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.00840	U	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000622	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.00837	U	0.000994	U	0.000994	U	0.000994	U	0.000994	U	0.000994	U	0.000620	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.00840	U	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000998	U	0.000622	U

Notes:

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Table 4
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Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Tribromomethane		Acrolein		Acrylonitrile		Bromodichloromethane		Bromomethane (Methyl bromide)		Chloromethane (Methyl chloride)		Trichlorofluoromethane (Freon 11)	
Method Unit				SW846 8260C mg/kg		SW846 8260C mg/kg		SW846 8260C mg/kg		SW846 8260C mg/kg		SW846 8260C mg/kg		SW846 8260C mg/kg		SW846 8260C mg/kg	
Background Soil Concentration				0.000511		0.00862		0.00361		0.000200		0.00110		0.00120		0.000501	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.00222	U	0.00547	U	0.00799	U	0.00100	U	0.000933	U	0.000942	U	0.00179	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.00222	U	0.00549	U	0.00801	U	0.00101	U	0.000935	U	0.000944	U	0.00179	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.00219	U	0.00541	U	0.00789	U	0.000992	U	0.000922	U	0.000930	U	0.00177	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.00222	U	0.00547	U	0.00799	U	0.00100	U	0.000933	U	0.000942	U	0.00179	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.00220	U	0.00543	U	0.00793	U	0.000996	U	0.000926	U	0.000934	U	0.00178	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.00220	U	0.00543	U	0.00793	U	0.000996	U	0.000926	U	0.000934	U	0.00178	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.00221	U	0.00544	U	0.00794	U	0.000998	U	0.000927	U	0.000936	U	0.00178	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.00221	U	0.00544	U	0.00794	U	0.000998	U	0.000927	U	0.000936	U	0.00178	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.00220	U	0.00542	U	0.00791	U	0.000994	U	0.000924	U	0.000932	U	0.00177	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.00221	U	0.00544	U	0.00794	U	0.000998	U	0.000927	U	0.000936	U	0.00178	U

Notes:

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

ID = identification

mg/kg = milligram per kilogose

NMAC = New Mexico Administrative Code

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SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

VOC = volatile organic compound

Qualifiers:

U = Analyte was not detected at or above the SDL.

Table 4
July 2024 Release Response Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				1,4-Dioxane		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		1,3-Dichloropropene		1,1-Dichloropropene		Dichlorodifluoromethane (Freon 12)	
Method Unit				SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C	
Background Soil Concentration				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
				0.0190		0.000451		0.000521		0.000521		0.000521		0.000731	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.0241	U	0.00100	U	0.00167	U	0.00167	U	0.000517	U	0.00192	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.0242	U	0.00101	U	0.00168	U	0.00168	U	0.000518	U	0.00192	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.0238	U	0.000992	U	0.00165	U	0.00165	U	0.000511	U	0.00190	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.0241	U	0.00100	U	0.00167	U	0.00167	U	0.000517	U	0.00192	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.0239	U	0.000996	U	0.00166	U	0.00166	U	0.000513	U	0.00191	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.0239	U	0.000996	U	0.00166	U	0.00166	U	0.000513	U	0.00191	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.0240	U	0.000998	U	0.00166	U	0.00166	U	0.000514	U	0.00191	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.0240	U	0.000998	U	0.00166	U	0.00166	U	0.000514	U	0.00191	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.0239	U	0.000994	U	0.00166	U	0.00166	U	0.000512	U	0.00190	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.0240	U	0.000998	U	0.00166	U	0.00166	U	0.000514	U	0.00191	U

Notes:

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Table 5
July 2024 Release Response Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				1-Methyl-naphthalene		2-Methyl-Naphthalene		Acenaphthene		Acenaphthylene		Anthracene		Atrazine		Benzo(a)anthracene	
Method Unit				SW846 8270D mg/kg 0.0112		SW846 8270D mg/kg 0.0190		SW846 8270D mg/kg 0.0103		SW846 8270D mg/kg 0.0821		SW846 8270D mg/kg 0.0170		SW846 8270D mg/kg 0.0370		SW846 8270D mg/kg 0.0200	
Background Soil Concentration																	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U*
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U

- Notes:
- 1. Non-detect values are reported to the SDL specified in the laboratory reports.
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Table 5
July 2024 Release Response Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene	
Method				SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.0200		0.0262		0.0160		0.0400		0.0270		0.0190		0.0360	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0126	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0126	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.0172	U	0.0126	U	0.0154	U	0.0194	U	0.0165	U	0.0127	U	0.0126	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0126	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0126	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.0172	U*	0.0126	U*	0.0154	U*	0.0194	U*	0.0165	U*	0.0127	U*	0.0126	U*
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.0172	U	0.0126	U	0.0154	U	0.0194	U	0.0165	U	0.0127	U	0.0126	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0126	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0126	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0126	U

Notes:

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Table 5
July 2024 Release Response Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Fluorene		Indeno(1,2,3-cd)Pyrene		Naphthalene		Phenanthrene		Pyrene		Pentachlorophenol		1,2,4,5-Tetrachlorobenzene	
Method				SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.0180		0.0220		0.0310		0.0170		0.0121		0.330		0.0490	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.0139	U	0.0135	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.0139	U	0.0135	U*	0.0156	U	0.0166	U	0.0146	U*	0.0121	U	0.0165	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U

Notes:

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Table 5
July 2024 Release Response Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Hexachlorobenzene		Pentachlorobenzene		2,4-Dichlorophenol		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		bis(2-chloroisopropyl) ether		bis(2-Chloroethyl) ether	
Method Unit				SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg	
Background Soil Concentration				0.0290		0.0650		0.0100		0.0100		0.0100		0.0230		0.0166	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.0162	U	0.0159	U	0.0175	U	0.0191	U	0.0158	U	0.0178	U	0.0152	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.0162	U	0.0159	U	0.0175	U	0.0191	U	0.0158	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.0162	U	0.0159	U	0.0175	U	0.0191	U	0.0158	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U

Notes:

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Table 5
July 2024 Release Response Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Hexachloroethane		N-Nitrosodi-n-Butylamine		N-Nitrosodiethylamine		N-Nitrosodimethylamine		N-Nitrosodiphenylamine (Diphenylamine)		N-Nitrosopyrrolidine		4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	
Method Unit				SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg	
Background Soil Concentration				0.0213		0.0967		0.0650		0.0370		0.0210		0.0640		0.330	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.0173	U	0.0253	U	0.0219	U	0.0168	U	0.0186	U	0.0141	U	0.0127	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.0173	U	0.0253	U	0.0219	U	0.0168	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.0173	U	0.0253	U	0.0219	U	0.0168	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U

Notes:

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the highest of the background soil concentration.

ID = identification
mg/kg = milligram per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SVOC = semivolatile organic compound

SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

Qualifiers:

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Reference:

Arcadis. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

Table 5
July 2024 Release Response Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				2,4-Dinitrotoluene		2,6-Dinitrotoluene		2,4-Dinitrophenol		Nitrobenzene		bis(2-Ethylhexyl)phthalate		Di-n-butylphthalate		Diethylphthalate	
Method Unit				SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg	
Background Soil Concentration				0.0660		0.0280		0.333		0.0220		0.0537		0.0290		0.0260	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.0128	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0161	U	0.0153	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.0128	U	0.0233	U	0.0242	U	0.0185	U	0.167	U*	0.0161	U	0.0153	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0161	U	0.0153	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U

Notes:

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the highest of the background soil concentration.

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Table 5
July 2024 Release Response Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Dimethyl phthalate		Benzidine		3,3'-Dichlorobenzidine		1,2-Diphenylhydrazine		Isophorone		Hexachlorobutadiene		Thiophene, tetrahydro-, 1,1-dioxide		Chlorobenzene	
Method Unit				SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8270D mg/kg		SW846 8260C mg/kg	
Background Soil Concentration				0.0230		0.990		0.0900		0.0220		0.0170		0.0100		--		0.000301	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000626	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000627	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0139	U	0.333	U	0.000618	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000626	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000621	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.0159	U	0.0121	U*	0.0154	U*	0.0174	U	0.0145	U	0.0139	U	0.333	U	0.000621	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000622	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000622	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000619	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000622	U

Notes:

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the highest of the background soil concentration.

ID = identification
mg/kg = milligram per kilogram
MQL = method quantitation limit
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SDL = sample detection limit
SVOC = semivolatile organic compound

SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

Qualifiers:

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Reference:

Arcadis. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

Table 6
July 2024 Release Response Soil Sampling Analytical Results: PCBs
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent Method Unit Background Soil Concentration				PCB-1016 SW846 8082A mg/kg 0.00542		PCB-1221 SW846 8082A mg/kg 0.00542		PCB-1232 SW846 8082A mg/kg 0.00542		PCB-1242 SW846 8082A mg/kg 0.00542		PCB-1248 SW846 8082A mg/kg 0.00542		PCB-1254 SW846 8082A mg/kg 0.00542		PCB-1260 SW846 8082A mg/kg 0.0106	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.0026	U	0.0026	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00261	U	0.00261	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.0026	U	0.0026	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00261	U	0.00261	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.0026	U	0.0026	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00261	U	0.00261	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00261	U	0.00261	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.0026	U	0.0026	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.0026	U	0.0026	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00261	U	0.00261	U

Notes:

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

ID = identification

mg/kg = milligram per kilogram

NMAC = New Mexico Administrative Code

PCB = polychlorinated biphenyl

SDL = sample detection limit

SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

Qualifier:

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Table 7
July 2024 Release Response Soil Sampling Analytical Results: Other Constituents
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Nitrogen, Nitrate as Nitrogen		Nitrogen, Nitrate-Nitrite		Nitrogen, Nitrite		Sulfate		Fluoride		pH		Total Cyanide		Phenols	
Method Unit				SW846 9056A mg/kg		SW846 9056A mg/kg		SW846 9056A mg/kg		SW846 9056A mg/kg		SW846 9056A mg/kg		SW846 9045D SU		SW846 9012B mg/kg		SW 9066 mg/kg	
Background Soil Concentration				3.56		7.01		2.34		186		9.63		8.67		0.216		3.85	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	5.29	H	5.52	H	0.497	U H	126	--	2.30	J	8.8	HF	0.125	--	0.117	--
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	51.8	--	56.3	--	4.57	--	140	--	2.20	J	8.6	HF	0.0483	J	0.0887	J
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	2.10	H	2.40	H	0.507	U H	3,510	--	1.01	U	7.4	HF	0.0292	U	0.175	--
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	5.98	H	5.98	H	0.504	U H	121	--	9.95	--	9.5	HF	0.0516	J	0.311	--
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	7.17	H	7.17	H	0.499	U H	63.0	--	4.96	J	8.4	HF	0.0323	J	0.0686	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	6.52	--	10.7	--	4.21	--	62.8	--	3.80	J	9.3	HF	0.0877	--	0.0813	J
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	15.5	--	15.5	--	0.502	U	99.6	--	7.09	--	9.7	HF	0.0624	--	0.0682	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	10.9	--	16.1	--	5.21	--	149	--	7.40	--	9.6	HF	0.0801	--	0.0701	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	8.09	--	12.5	--	4.38	--	71.9	--	7.61	--	9.4	HF	0.0668	--	0.0708	J
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	5.57	--	5.57	--	0.502	U	96.8	--	8.81	--	8.5	HF	0.102	--	0.063	U

Notes:

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

3. Detected values highlighted in gray exceed the SDL or background soil concentrations (Arcadis 2021).

-- = not applicable

EPA = United States Environmental Protection Agency

ID = identification

mg/kg = milligram per kilogram

mg/L = milligram per liter

MQL = method quantitation limit

NMAC = New Mexico Administrative Code

SDL = sample detection limit

SM = "Standard Methods for the Examination of Water and Wastewater"

SU = standard unit

SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

Qualifiers:

B = The compound was found in the blank and sample.

H = Sample was prepped or analyzed beyond the specified holding time.

HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

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Reference:

Arcadis. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

Table 7
July 2024 Release Response Soil Sampling Analytical Results: Other Constituents
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Total Dissolved Solids		2,4,6-Trinitrotoluene		Hexahydro-1,3,5-trinitro-1,3,5-triazine		Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine		Perchlorate		Perfluorohexane Sulfonic Acid		Perfluorooctanoic Acid	
Method Unit				SM 2540C mg/L		SW846 8330B mg/kg		SW846 8330B mg/kg		SW846 8330B mg/kg		EPA 6850 mg/kg		EPA 1633 mg/kg		EPA 1633 mg/kg	
Background Soil Concentration				290		0.0304		0.0426		0.0225		0.00028		0.000275		0.000226	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	123	--	0.0302	U	0.0423	U	0.0223	U	0.000861	B	0.0000212	U	0.0000829	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	122	--	0.0287	U	0.0402	U	0.0212	U	0.000258	J B	0.0000225	U	0.0000881	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	269	--	0.0281	U	0.0394	U	0.0208	U	0.00318	B	0.0000236	U	0.0000922	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	98.5	--	0.0294	U	0.0412	U	0.0217	U	0.000273	J B	0.0000192	U	0.0000750	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	136	--	0.0285	U	0.0399	U	0.021	U	0.000577	J B	0.0000227	U	0.0000885	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	65.5	--	0.029	U	0.0406	U	0.0215	U	0.000368	J B	0.0000211	U	0.0000823	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	109	--	0.0296	U	0.0415	U	0.0219	U	0.000454	J B	0.0000223	U	0.0000872	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	91.0	--	0.0285	U	0.0400	U	0.0211	U	0.000279	J B	0.0000223	U	0.0000870	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	111	--	0.0295	U	0.0413	U	0.0218	U	0.000453	J B	0.0000195	U	0.000112	J
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	105	--	0.0297	U	0.0415	U	0.0219	U	0.000235	J B	0.0000233	U	0.0000909	U

- Notes:**
- 1. Non-detect values are reported to the SDL specified in the laboratory reports.
 - 2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of background soil concentration.
 - 3. Detected values highlighted in gray exceed the SDL or background soil concentrations (Arcadis 2021).

-- = not applicable

EPA = United States Environmental Protection Agency

ID = identification

mg/kg = milligram per kilogram

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MQL = method quantitation limit

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Reference:

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Table 8
July 2024 Release Response Soil Sampling Analytical Results: Radium
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent Method Unit Background Soil Concentration				Radium-226 DOE GA-01-R pCi/g 1.37		Radium-228 DOE GA-01-R pCi/g 0.69		Combined Radium 226 + 228 DOE GA-01-R pCi/g 1.35	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	1.61	--	0.372	--	1.98	--
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.707	--	0.567	--	1.27	--
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	1.78	--	0.328	--	2.11	--
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	1.77	--	0.191	U	1.97	--
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	1.21	--	0.330	--	1.54	--
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.807	--	0.205	U	1.01	--
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.657	--	0.133	U	0.789	--
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.838	--	0.274	--	1.11	--
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	1.50	--	0.181	U	1.68	--
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.981	--	0.146	U	1.13	--

Notes:

1. Non-detect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

3. Detected values highlighted in gray exceed the SDL or background soil concentrations (Arcadis 2021).

-- = not applicable

DOE = United States Department of Energy

ID = identification

NMAC = New Mexico Administrative Code

pCi/g = average picocurie per gram

SDL = sample detection limit

Qualifier:

U = Result is less than the sample detection limit.

Reference:

Arcadis. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

Table 9
July 2024 Release Response Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Aldrin		Chlordane Gamma Technical Mixture		4,4-DDT		Dieldrin		Endosulfan		Endosulfan II		Endosulfan I	
Method Unit				SW846 8081B mg/kg		SW846 8081B mg/kg		SW846 8081B mg/kg		SW846 8081B mg/kg		SW846 8081B mg/kg		SW846 8081B mg/kg		SW846 8081B mg/kg	
Background Soil Concentration				0.000800		0.0125		0.0017		0.00114		--		0.00154		0.00125	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.000186	U	0.0120	U	0.000254	U	0.000169	U	0.000276	U	0.000247	U	0.000202	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.000187	U	0.0121	U	0.000254	U	0.000170	U	0.000276	U	0.000247	U	0.000202	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.000186	U	0.0120	U	0.000254	U	0.000169	U	0.000276	U	0.000247	U	0.000202	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.000187	U	0.0121	U	0.000254	U	0.000170	U	0.000276	U	0.000247	U	0.000202	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.000186	U	0.0120	U	0.000254	U	0.000169	U	0.000276	U	0.000247	U	0.000202	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.000187	U	0.0121	U	0.000254	U	0.000170	U	0.000276	U	0.000247	U	0.000202	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.000187	U	0.0121	U	0.000254	U	0.000170	U	0.000276	U	0.000247	U	0.000202	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.000186	U	0.0120	U	0.000253	U	0.000169	U	0.000275	U	0.000246	U	0.000201	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.000186	U	0.0120	U	0.000254	U	0.000169	U	0.000276	U	0.000247	U	0.000202	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.000187	U	0.0121	U	0.000254	U	0.000170	U	0.000276	U	0.000247	U	0.000202	U

- Notes:
- 1. Non-detect values are reported to the SDL specified in the laboratory reports.
 - 2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

BHC = Hexachlorocyclohexane
ID = identification
mg/kg = milligram per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates

Qualifier:
U = Analyte was not detected at or above the SDL.

Table 9
July 2024 Release Response Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico



Constituent				Endrin		Heptachlor		alpha BHC (Hexachlorocyclohexane)		beta BHC (Hexachlorocyclohexane)		delta BHC (Hexachlorocyclohexane)		gamma BHC (Lindane) (Hexachlorocyclohexane)	
Method Unit				SW846 8081B mg/kg 0.00198		SW846 8081B mg/kg 0.00164		SW846 8081B mg/kg 0.000946		SW846 8081B mg/kg 0.00180		SW846 8081B mg/kg 0.00176		SW846 8081B mg/kg 0.00186	
Background Soil Concentration															
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.000291	U	0.000214	U	0.000163	U	0.000155	U	0.000343	U	0.000158	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.000291	U	0.000215	U	0.000163	U	0.000156	U	0.000344	U	0.000158	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.000291	U	0.000214	U	0.000163	U	0.000155	U	0.000343	U	0.000158	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.000291	U	0.000215	U	0.000163	U	0.000155	U	0.000344	U	0.000158	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.000291	U	0.000214	U	0.000163	U	0.000155	U	0.000343	U	0.000158	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.000291	U	0.000215	U	0.000163	U	0.000155	U	0.000344	U	0.000158	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.000291	U	0.000215	U	0.000163	U	0.000156	U	0.000344	U	0.000158	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.00029	U	0.000214	U	0.000162	U	0.000155	U	0.000343	U	0.000158	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.000291	U	0.000214	U	0.000163	U	0.000155	U	0.000343	U	0.000158	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.000291	U	0.000215	U	0.000163	U	0.000155	U	0.000344	U	0.000158	U

- Notes:**
- 1. Non-detect values are reported to the SDL specified in the laboratory reports.
 - 2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the vadose zone background concentration.

BHC = Hexachlorocyclohexane
ID = identification
mg/kg = milligram per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition

Qualifier:
U = Analyte was not detected at or above the SDL.

Table 9
July 2024 Release Response Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - July 2024
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

Constituent				Toxaphene		Prometon		Hexachlorocyclopentadiene	
Method Unit				SW846 8081B mg/kg 0.0260		SW846 8270E mg/kg 0.0120		SW846 8270D mg/kg 0.111	
Background Soil Concentration									
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 4-S-3-4-240716	7/16/2024	0.00977	U	0.0125	U	0.0152	U
Cell 17	Vadose	Cell17-Square 6-S-3-4-240717	7/17/2024	0.00979	U	0.0122	U	0.0152	U
Cell 17	Vadose	Cell17-Square 24-S-3-4-240716	7/16/2024	0.00977	U	0.0126	U	0.0152	U
Cell 17	Vadose	Cell17-Square 44-S-3-4-240716	7/16/2024	0.00979	U	0.0127	U	0.0152	U
Cell 17	Vadose	Cell17-Square 64-S-3-4-240716	7/16/2024	0.00977	U	0.012	U	0.0152	U
Cell 18	Vadose	Cell18-Square 63-S-3-4-240717	7/17/2024	0.00979	U	0.0126	U	0.0152	U
Cell 18	Vadose	Cell18-Square 120-S-3-4-240717	7/17/2024	0.00979	U	0.0128	U	0.0152	U
Cell 18	Vadose	Cell18-Square 140-S-3-4-240717	7/17/2024	0.00976	U	0.0128	U	0.0152	U
Cell 18	Vadose	Cell18-Square 142-S-3-4-240717	7/17/2024	0.00977	U	0.0125	U	0.0152	U
Cell 21	Vadose	Cell21-Square 194-S-3-4-240717	7/17/2024	0.00979	U	0.0128	U	0.0152	U

- Notes:**
- Non-detect values are reported to the SDL specified in the laboratory reports.
 - In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compar

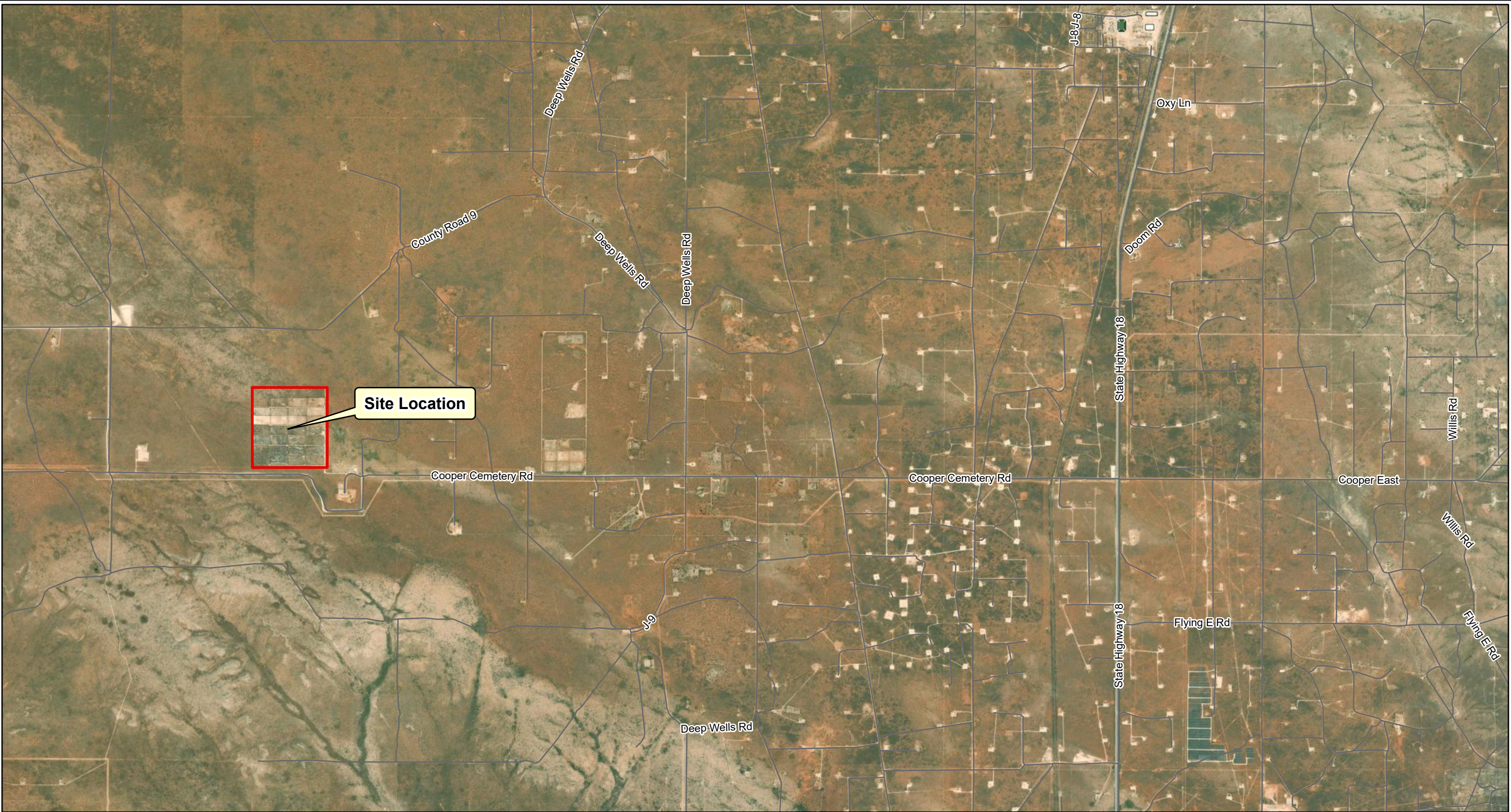
BHC = Hexachlorocyclohexane
ID = identification
mg/kg = milligram per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third E

Qualifier:
U = Analyte was not detected at or above the SDL.



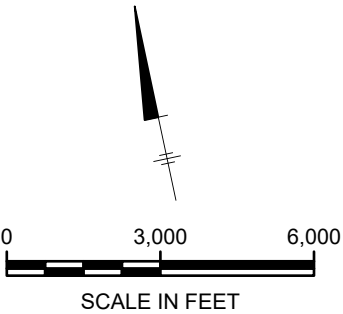
Figures

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LEGEND

 Landfarm Boundary

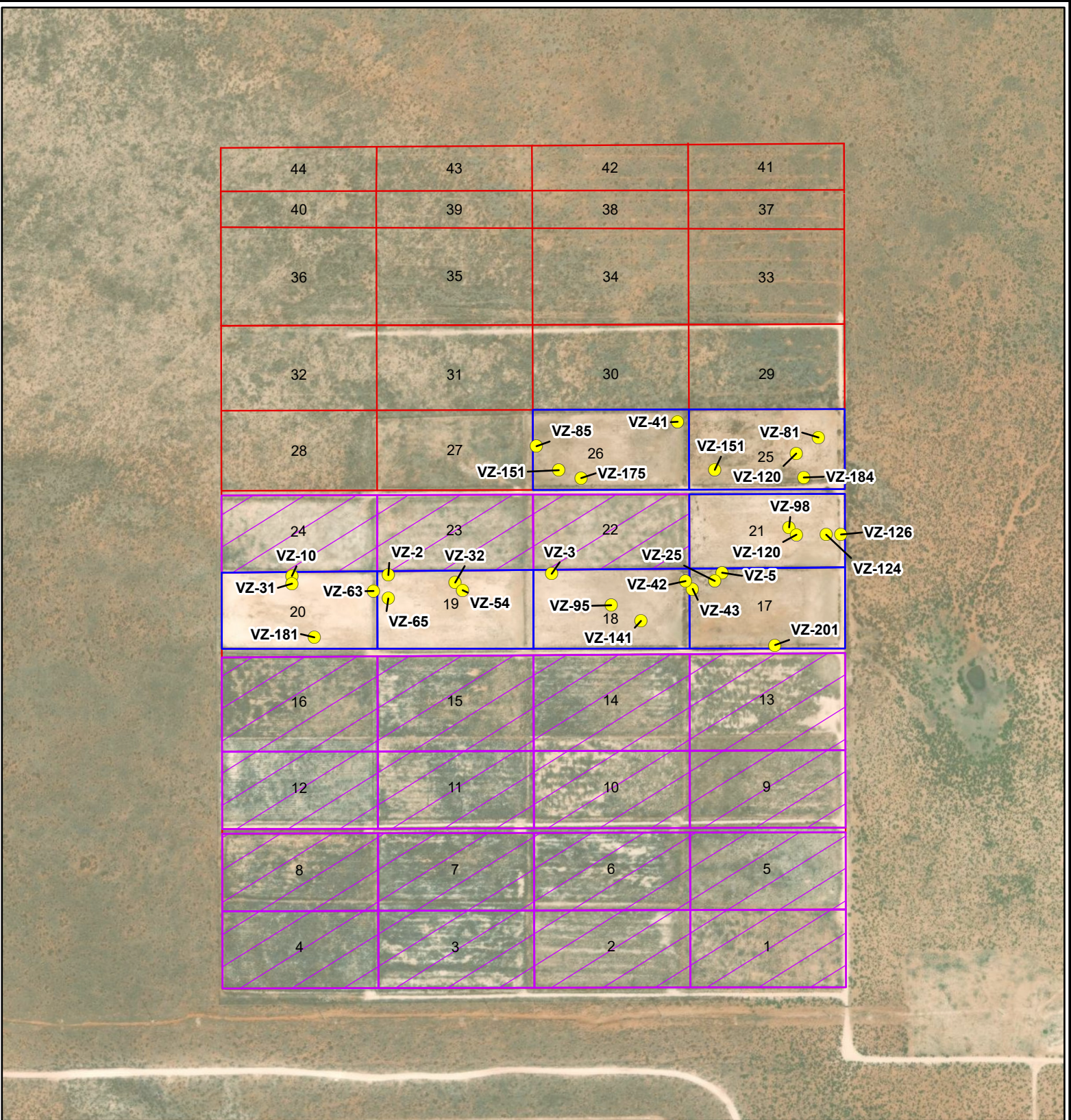


CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
**RELEASE RESPONSE SAMPLING RESULTS
AND ACTION PLAN - JULY 2024**

SITE LOCATION MAP



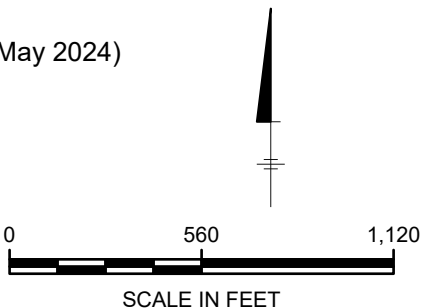
FIGURE
1



LEGEND

- Vadose Zone Sampling Location (May 2024)
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

Note:
The sampling locations are approximate.



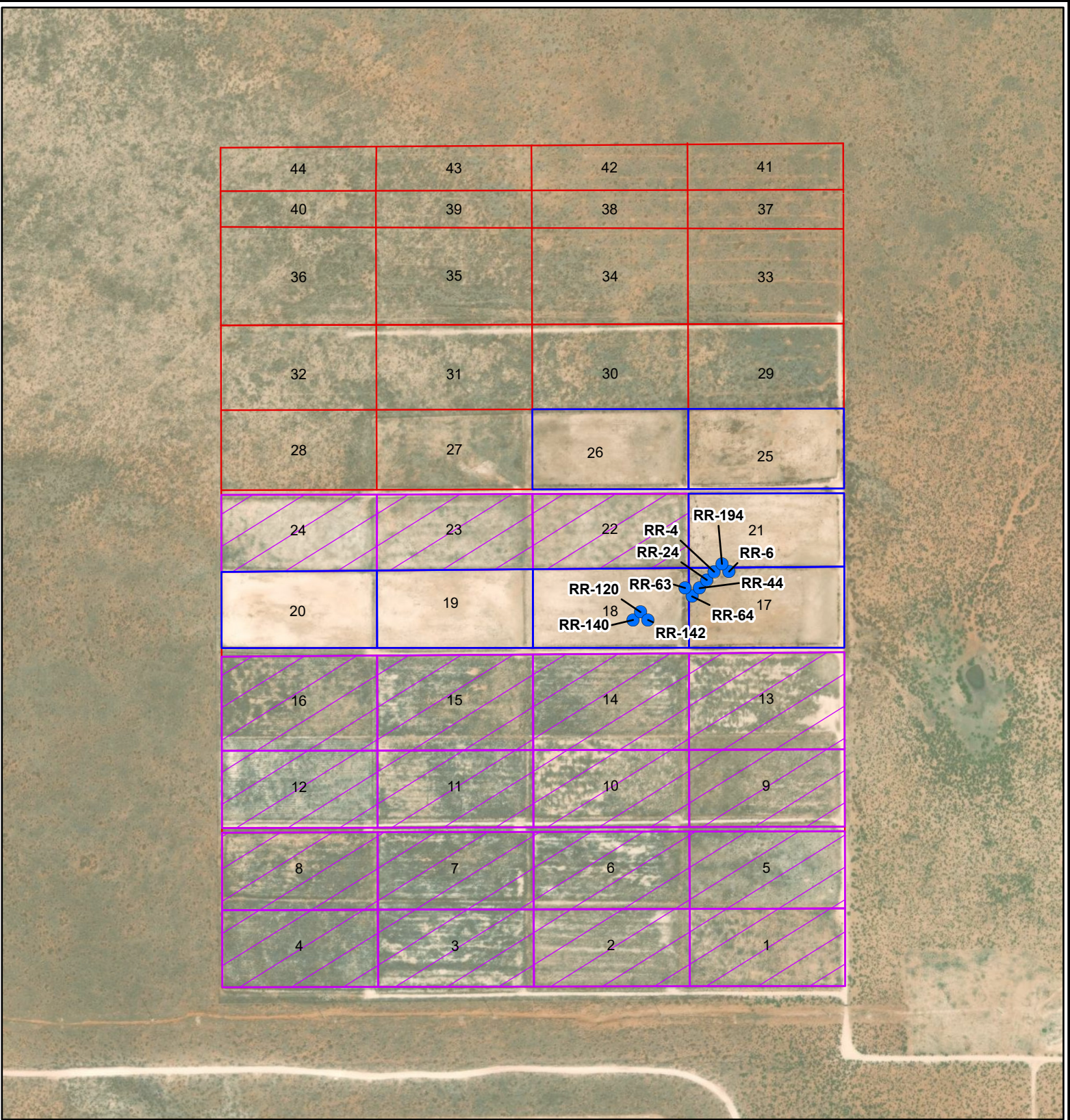
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
**RELEASE RESPONSE SAMPLING RESULTS
AND ACTION PLAN - JULY 2024**

**MAY 2024
SAMPLING LOCATIONS**



FIGURE

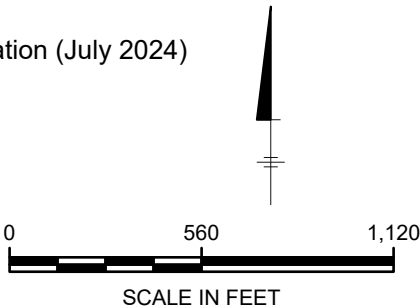
2



LEGEND

- Release Response Sampling Location (July 2024)
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

Note:
The sampling locations are approximate.



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
**RELEASE RESPONSE SAMPLING RESULTS
AND ACTION PLAN - JULY 2024**

**JULY 2024 RELEASE
RESPONSE SAMPLING LOCATIONS**



FIGURE
3

Appendix A

May 2024 Laboratory Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 5/22/2024 9:18:22 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

880-42901-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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5/22/2024 9:18:22 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-42901-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Job ID: 880-42901-1

Eurofins Midland

Job Narrative 880-42901-1

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 4/30/2024 4:25 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 8.0°C.

GC/MS VOA

Method 8260C: Sample is in a bulk jar.

Cell20-Square 31-S-3-4-240430 (880-42901-1), Cell20-Square 10-S-3-4-240430 (880-42901-2), Cell20-Square 181-S-3-4-240430 (880-42901-3), Cell20-Square 63-S-3-4-240430 (880-42901-4), Cell19-Square 65-S-3-4-240430 (880-42901-5), Cell19-Square 2-S-3-4-240430 (880-42901-6), Cell19-Square 32-S-3-4-240430 (880-42901-7), Cell19-Square 54-S-3-4-240430 (880-42901-8), Cell18-Square 3-S-3-4-240430 (880-42901-9) and (880-42901-C-1-B MS)

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

Gasoline Range Organics

Method 8015D_GRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-158901 and analytical batch 860-159113 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015D_DRO: The method blank for preparation batch 500-767857 and analytical batch 500-768026 contained 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 8015D_DRO: 2-Fluorobiphenyl surrogate recovery for the following sample was outside control limits: Cell20-Square 181-S-3-4-240430 (880-42901-3). o-Terphenyl surrogate was within the control limits; 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

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-161051 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

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

General Chemistry

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

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell20-Square 31-S-3-4-240430

Lab Sample ID: 880-42901-1

Date Collected: 04/30/24 09:12

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 70.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000543	U	0.00142	0.000543	mg/Kg	✧	05/03/24 09:24	05/04/24 01:03	1
Toluene	0.00172	U	0.00710	0.00172	mg/Kg	✧	05/03/24 09:24	05/04/24 01:03	1
Ethylbenzene	0.000432	U	0.00142	0.000432	mg/Kg	✧	05/03/24 09:24	05/04/24 01:03	1
m,p-Xylenes	0.000615	U	0.00284	0.000615	mg/Kg	✧	05/03/24 09:24	05/04/24 01:03	1
o-Xylene	0.000449	U	0.00142	0.000449	mg/Kg	✧	05/03/24 09:24	05/04/24 01:03	1
Xylenes, Total	0.000615	U	0.00284	0.000615	mg/Kg	✧	05/03/24 09:24	05/04/24 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	147		56 - 150	05/03/24 09:24	05/04/24 01:03	1
4-Bromofluorobenzene (Surr)	95		68 - 152	05/03/24 09:24	05/04/24 01:03	1
Dibromofluoromethane (Surr)	100		53 - 142	05/03/24 09:24	05/04/24 01:03	1
Toluene-d8 (Surr)	95		70 - 130	05/03/24 09:24	05/04/24 01:03	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.59	U	14.3	3.59	mg/Kg	✧	05/07/24 14:04	05/08/24 14:51	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	05/07/24 14:04	05/08/24 14:51	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4.84	J b	17.6	2.32	mg/Kg	✧	05/14/24 11:03	05/15/24 20:16	1
C28-C36	23.7	J	35.5	17.9	mg/Kg	✧	05/14/24 11:03	05/15/24 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	90		42 - 112	05/14/24 11:03	05/15/24 20:16	1
2-Fluorobiphenyl	93		32 - 110	05/14/24 11:03	05/15/24 20:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.4		14.1	7.06	mg/Kg	✧	05/18/24 16:00	05/18/24 19:48	1

Client Sample ID: Cell20-Square 10-S-3-4-240430

Lab Sample ID: 880-42901-2

Date Collected: 04/30/24 09:38

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 90.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000426	U	0.00111	0.000426	mg/Kg	✧	05/03/24 10:19	05/04/24 01:24	1
Toluene	0.00135	U	0.00556	0.00135	mg/Kg	✧	05/03/24 10:19	05/04/24 01:24	1
Ethylbenzene	0.000339	U	0.00111	0.000339	mg/Kg	✧	05/03/24 10:19	05/04/24 01:24	1
m,p-Xylenes	0.000482	U	0.00223	0.000482	mg/Kg	✧	05/03/24 10:19	05/04/24 01:24	1
o-Xylene	0.000352	U	0.00111	0.000352	mg/Kg	✧	05/03/24 10:19	05/04/24 01:24	1
Xylenes, Total	0.000482	U	0.00223	0.000482	mg/Kg	✧	05/03/24 10:19	05/04/24 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		56 - 150	05/03/24 10:19	05/04/24 01:24	1
4-Bromofluorobenzene (Surr)	101		68 - 152	05/03/24 10:19	05/04/24 01:24	1
Dibromofluoromethane (Surr)	97		53 - 142	05/03/24 10:19	05/04/24 01:24	1
Toluene-d8 (Surr)	95		70 - 130	05/03/24 10:19	05/04/24 01:24	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell20-Square 10-S-3-4-240430

Lab Sample ID: 880-42901-2

Date Collected: 04/30/24 09:38

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 90.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.77	U	11.1	2.77	mg/Kg	☼	05/07/24 14:04	05/08/24 15:24	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				05/07/24 14:04	05/08/24 15:24	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.09	J b	13.6	1.78	mg/Kg	☼	05/14/24 11:03	05/15/24 21:28	1
C28-C36	13.7	U	27.3	13.7	mg/Kg	☼	05/14/24 11:03	05/15/24 21:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	100		42 - 112				05/14/24 11:03	05/15/24 21:28	1
2-Fluorobiphenyl	105		32 - 110				05/14/24 11:03	05/15/24 21:28	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.53	U	11.1	5.53	mg/Kg	☼	05/18/24 16:00	05/18/24 20:17	1

Client Sample ID: Cell20-Square 181-S-3-4-240430

Lab Sample ID: 880-42901-3

Date Collected: 04/30/24 10:16

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 90.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000421	U	0.00110	0.000421	mg/Kg	☼	05/03/24 10:19	05/04/24 01:44	1
Toluene	0.00133	U	0.00550	0.00133	mg/Kg	☼	05/03/24 10:19	05/04/24 01:44	1
Ethylbenzene	0.000335	U	0.00110	0.000335	mg/Kg	☼	05/03/24 10:19	05/04/24 01:44	1
m,p-Xylenes	0.000476	U	0.00220	0.000476	mg/Kg	☼	05/03/24 10:19	05/04/24 01:44	1
o-Xylene	0.000348	U	0.00110	0.000348	mg/Kg	☼	05/03/24 10:19	05/04/24 01:44	1
Xylenes, Total	0.000476	U	0.00220	0.000476	mg/Kg	☼	05/03/24 10:19	05/04/24 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150				05/03/24 10:19	05/04/24 01:44	1
4-Bromofluorobenzene (Surr)	99		68 - 152				05/03/24 10:19	05/04/24 01:44	1
Dibromofluoromethane (Surr)	96		53 - 142				05/03/24 10:19	05/04/24 01:44	1
Toluene-d8 (Surr)	96		70 - 130				05/03/24 10:19	05/04/24 01:44	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.77	U	11.1	2.77	mg/Kg	☼	05/07/24 14:04	05/08/24 15:57	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				05/07/24 14:04	05/08/24 15:57	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.27	J b	13.7	1.80	mg/Kg	☼	05/14/24 11:03	05/15/24 21:52	1
C28-C36	14.1	J	27.6	13.9	mg/Kg	☼	05/14/24 11:03	05/15/24 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	105		42 - 112				05/14/24 11:03	05/15/24 21:52	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell20-Square 181-S-3-4-240430

Lab Sample ID: 880-42901-3

Date Collected: 04/30/24 10:16

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 90.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	112	X	32 - 110	05/14/24 11:03	05/15/24 21:52	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7	J	11.0	5.49	mg/Kg	☆	05/18/24 16:00	05/18/24 20:27	1

Client Sample ID: Cell20-Square 63-S-3-4-240430

Lab Sample ID: 880-42901-4

Date Collected: 04/30/24 10:38

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 82.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000461	U	0.00120	0.000461	mg/Kg	☆	05/03/24 10:19	05/04/24 02:05	1
Toluene	0.00146	U	0.00602	0.00146	mg/Kg	☆	05/03/24 10:19	05/04/24 02:05	1
Ethylbenzene	0.000367	U	0.00120	0.000367	mg/Kg	☆	05/03/24 10:19	05/04/24 02:05	1
m,p-Xylenes	0.000521	U	0.00241	0.000521	mg/Kg	☆	05/03/24 10:19	05/04/24 02:05	1
o-Xylene	0.000381	U	0.00120	0.000381	mg/Kg	☆	05/03/24 10:19	05/04/24 02:05	1
Xylenes, Total	0.000521	U	0.00241	0.000521	mg/Kg	☆	05/03/24 10:19	05/04/24 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150	05/03/24 10:19	05/04/24 02:05	1
4-Bromofluorobenzene (Surr)	97		68 - 152	05/03/24 10:19	05/04/24 02:05	1
Dibromofluoromethane (Surr)	99		53 - 142	05/03/24 10:19	05/04/24 02:05	1
Toluene-d8 (Surr)	103		70 - 130	05/03/24 10:19	05/04/24 02:05	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.02	U	12.1	3.02	mg/Kg	☆	05/07/24 14:04	05/08/24 16:30	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/07/24 14:04	05/08/24 16:30	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.41	J b	15.0	1.97	mg/Kg	☆	05/14/24 11:03	05/15/24 11:26	1
C28-C36	15.2	U	30.2	15.2	mg/Kg	☆	05/14/24 11:03	05/15/24 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	88		42 - 112	05/14/24 11:03	05/15/24 11:26	1
2-Fluorobiphenyl	93		32 - 110	05/14/24 11:03	05/15/24 11:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.05	U	12.1	6.05	mg/Kg	☆	05/18/24 16:00	05/18/24 20:56	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell19-Square 65-S-3-4-240430

Lab Sample ID: 880-42901-5

Date Collected: 04/30/24 11:12

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 83.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000461	U	0.00120	0.000461	mg/Kg	☼	05/03/24 10:19	05/04/24 02:25	1
Toluene	0.00146	U	0.00602	0.00146	mg/Kg	☼	05/03/24 10:19	05/04/24 02:25	1
Ethylbenzene	0.000367	U	0.00120	0.000367	mg/Kg	☼	05/03/24 10:19	05/04/24 02:25	1
m,p-Xylenes	0.000522	U	0.00241	0.000522	mg/Kg	☼	05/03/24 10:19	05/04/24 02:25	1
o-Xylene	0.000381	U	0.00120	0.000381	mg/Kg	☼	05/03/24 10:19	05/04/24 02:25	1
Xylenes, Total	0.000522	U	0.00241	0.000522	mg/Kg	☼	05/03/24 10:19	05/04/24 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150	05/03/24 10:19	05/04/24 02:25	1
4-Bromofluorobenzene (Surr)	100		68 - 152	05/03/24 10:19	05/04/24 02:25	1
Dibromofluoromethane (Surr)	87		53 - 142	05/03/24 10:19	05/04/24 02:25	1
Toluene-d8 (Surr)	100		70 - 130	05/03/24 10:19	05/04/24 02:25	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.99	U	12.0	2.99	mg/Kg	☼	05/07/24 14:04	05/08/24 17:03	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/07/24 14:04	05/08/24 17:03	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.00	J b	14.7	1.93	mg/Kg	☼	05/14/24 11:03	05/15/24 11:50	1
C28-C36	14.9	U	29.6	14.9	mg/Kg	☼	05/14/24 11:03	05/15/24 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	91		42 - 112	05/14/24 11:03	05/15/24 11:50	1
2-Fluorobiphenyl	94		32 - 110	05/14/24 11:03	05/15/24 11:50	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.2		12.0	6.01	mg/Kg	☼	05/18/24 16:00	05/18/24 21:06	1

Client Sample ID: Cell19-Square 2-S-3-4-240430

Lab Sample ID: 880-42901-6

Date Collected: 04/30/24 11:35

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 90.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000423	U	0.00111	0.000423	mg/Kg	☼	05/03/24 10:19	05/04/24 02:46	1
Toluene	0.00134	U	0.00553	0.00134	mg/Kg	☼	05/03/24 10:19	05/04/24 02:46	1
Ethylbenzene	0.000337	U	0.00111	0.000337	mg/Kg	☼	05/03/24 10:19	05/04/24 02:46	1
m,p-Xylenes	0.000479	U	0.00221	0.000479	mg/Kg	☼	05/03/24 10:19	05/04/24 02:46	1
o-Xylene	0.000350	U	0.00111	0.000350	mg/Kg	☼	05/03/24 10:19	05/04/24 02:46	1
Xylenes, Total	0.000479	U	0.00221	0.000479	mg/Kg	☼	05/03/24 10:19	05/04/24 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		56 - 150	05/03/24 10:19	05/04/24 02:46	1
4-Bromofluorobenzene (Surr)	102		68 - 152	05/03/24 10:19	05/04/24 02:46	1
Dibromofluoromethane (Surr)	101		53 - 142	05/03/24 10:19	05/04/24 02:46	1
Toluene-d8 (Surr)	91		70 - 130	05/03/24 10:19	05/04/24 02:46	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell19-Square 2-S-3-4-240430

Lab Sample ID: 880-42901-6

Date Collected: 04/30/24 11:35

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 90.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.74	U	11.0	2.74	mg/Kg	☼	05/07/24 14:04	05/08/24 17:36	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				05/07/24 14:04	05/08/24 17:36	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.64	J b	13.6	1.79	mg/Kg	☼	05/14/24 11:03	05/15/24 12:14	1
C28-C36	13.8	U	27.5	13.8	mg/Kg	☼	05/14/24 11:03	05/15/24 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	87		42 - 112				05/14/24 11:03	05/15/24 12:14	1
2-Fluorobiphenyl	85		32 - 110				05/14/24 11:03	05/15/24 12:14	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.69	J	10.9	5.47	mg/Kg	☼	05/18/24 16:00	05/18/24 21:16	1

Client Sample ID: Cell19-Square 32-S-3-4-240430

Lab Sample ID: 880-42901-7

Date Collected: 04/30/24 11:54

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 91.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000421	U	0.00110	0.000421	mg/Kg	☼	05/03/24 10:19	05/04/24 03:06	1
Toluene	0.00133	U	0.00550	0.00133	mg/Kg	☼	05/03/24 10:19	05/04/24 03:06	1
Ethylbenzene	0.000335	U	0.00110	0.000335	mg/Kg	☼	05/03/24 10:19	05/04/24 03:06	1
m,p-Xylenes	0.000476	U	0.00220	0.000476	mg/Kg	☼	05/03/24 10:19	05/04/24 03:06	1
o-Xylene	0.000348	U	0.00110	0.000348	mg/Kg	☼	05/03/24 10:19	05/04/24 03:06	1
Xylenes, Total	0.000476	U	0.00220	0.000476	mg/Kg	☼	05/03/24 10:19	05/04/24 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		56 - 150				05/03/24 10:19	05/04/24 03:06	1
4-Bromofluorobenzene (Surr)	99		68 - 152				05/03/24 10:19	05/04/24 03:06	1
Dibromofluoromethane (Surr)	96		53 - 142				05/03/24 10:19	05/04/24 03:06	1
Toluene-d8 (Surr)	94		70 - 130				05/03/24 10:19	05/04/24 03:06	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.72	U	10.9	2.72	mg/Kg	☼	05/07/24 14:04	05/08/24 18:09	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/07/24 14:04	05/08/24 18:09	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.35	J b	13.1	1.72	mg/Kg	☼	05/14/24 11:03	05/15/24 12:38	1
C28-C36	13.3	U	26.4	13.3	mg/Kg	☼	05/14/24 11:03	05/15/24 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	101		42 - 112				05/14/24 11:03	05/15/24 12:38	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell19-Square 32-S-3-4-240430

Lab Sample ID: 880-42901-7

Date Collected: 04/30/24 11:54

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 91.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	100		32 - 110	05/14/24 11:03	05/15/24 12:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.0		10.9	5.43	mg/Kg	☆	05/18/24 16:00	05/18/24 21:26	1

Client Sample ID: Cell19-Square 54-S-3-4-240430

Lab Sample ID: 880-42901-8

Date Collected: 04/30/24 12:13

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 90.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000426	U	0.00111	0.000426	mg/Kg	☆	05/03/24 10:19	05/04/24 03:27	1
Toluene	0.00135	U	0.00557	0.00135	mg/Kg	☆	05/03/24 10:19	05/04/24 03:27	1
Ethylbenzene	0.000339	U	0.00111	0.000339	mg/Kg	☆	05/03/24 10:19	05/04/24 03:27	1
m,p-Xylenes	0.000482	U	0.00223	0.000482	mg/Kg	☆	05/03/24 10:19	05/04/24 03:27	1
o-Xylene	0.000352	U	0.00111	0.000352	mg/Kg	☆	05/03/24 10:19	05/04/24 03:27	1
Xylenes, Total	0.000482	U	0.00223	0.000482	mg/Kg	☆	05/03/24 10:19	05/04/24 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150	05/03/24 10:19	05/04/24 03:27	1
4-Bromofluorobenzene (Surr)	104		68 - 152	05/03/24 10:19	05/04/24 03:27	1
Dibromofluoromethane (Surr)	100		53 - 142	05/03/24 10:19	05/04/24 03:27	1
Toluene-d8 (Surr)	96		70 - 130	05/03/24 10:19	05/04/24 03:27	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.78	U	11.1	2.78	mg/Kg	☆	05/07/24 14:04	05/08/24 18:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/07/24 14:04	05/08/24 18:42	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.99	J b	13.2	1.74	mg/Kg	☆	05/14/24 11:03	05/15/24 13:02	1
C28-C36	13.4	U	26.6	13.4	mg/Kg	☆	05/14/24 11:03	05/15/24 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	87		42 - 112	05/14/24 11:03	05/15/24 13:02	1
2-Fluorobiphenyl	86		32 - 110	05/14/24 11:03	05/15/24 13:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.31	J	11.0	5.48	mg/Kg	☆	05/18/24 16:00	05/18/24 21:36	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell18-Square 3-S-3-4-240430

Lab Sample ID: 880-42901-9

Date Collected: 04/30/24 13:08

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 93.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000409	U	0.00107	0.000409	mg/Kg	☼	05/03/24 10:19	05/04/24 03:48	1
Toluene	0.00129	U	0.00535	0.00129	mg/Kg	☼	05/03/24 10:19	05/04/24 03:48	1
Ethylbenzene	0.000325	U	0.00107	0.000325	mg/Kg	☼	05/03/24 10:19	05/04/24 03:48	1
m,p-Xylenes	0.000463	U	0.00214	0.000463	mg/Kg	☼	05/03/24 10:19	05/04/24 03:48	1
o-Xylene	0.000338	U	0.00107	0.000338	mg/Kg	☼	05/03/24 10:19	05/04/24 03:48	1
Xylenes, Total	0.000463	U	0.00214	0.000463	mg/Kg	☼	05/03/24 10:19	05/04/24 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150	05/03/24 10:19	05/04/24 03:48	1
4-Bromofluorobenzene (Surr)	100		68 - 152	05/03/24 10:19	05/04/24 03:48	1
Dibromofluoromethane (Surr)	97		53 - 142	05/03/24 10:19	05/04/24 03:48	1
Toluene-d8 (Surr)	100		70 - 130	05/03/24 10:19	05/04/24 03:48	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.8	2.69	mg/Kg	☼	05/07/24 14:04	05/08/24 19:15	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	05/07/24 14:04	05/08/24 19:15	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.16	J b	12.4	1.63	mg/Kg	☼	05/14/24 11:03	05/15/24 13:50	1
C28-C36	12.6	U	25.0	12.6	mg/Kg	☼	05/14/24 11:03	05/15/24 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	94		42 - 112	05/14/24 11:03	05/15/24 13:50	1
2-Fluorobiphenyl	92		32 - 110	05/14/24 11:03	05/15/24 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.32	U	10.6	5.32	mg/Kg	☼	05/18/24 16:00	05/18/24 21:46	1

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
880-42901-1	Cell20-Square 31-S-3-4-240430	147	95	100	95
880-42901-1 MS	Cell20-Square 31-S-3-4-240430	101	100	104	101
880-42901-2	Cell20-Square 10-S-3-4-240430	108	101	97	95
880-42901-3	Cell20-Square 181-S-3-4-240430	100	99	96	96
880-42901-4	Cell20-Square 63-S-3-4-240430	100	97	99	103
880-42901-5	Cell19-Square 65-S-3-4-240430	100	100	87	100
880-42901-6	Cell19-Square 2-S-3-4-240430	95	102	101	91
880-42901-7	Cell19-Square 32-S-3-4-240430	110	99	96	94
880-42901-8	Cell19-Square 54-S-3-4-240430	100	104	100	96
880-42901-9	Cell18-Square 3-S-3-4-240430	100	100	97	100
LCS 860-158400/3	Lab Control Sample	103	100	103	100
LCSD 860-158400/4	Lab Control Sample Dup	103	100	107	99
MB 860-158400/10	Method Blank	103	95	94	94
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB1 (70-130)			
880-42901-1	Cell20-Square 31-S-3-4-240430	96			
880-42901-2	Cell20-Square 10-S-3-4-240430	102			
880-42901-3	Cell20-Square 181-S-3-4-240430	101			
880-42901-4	Cell20-Square 63-S-3-4-240430	116			
880-42901-5	Cell19-Square 65-S-3-4-240430	105			
880-42901-6	Cell19-Square 2-S-3-4-240430	102			
880-42901-7	Cell19-Square 32-S-3-4-240430	106			
880-42901-8	Cell19-Square 54-S-3-4-240430	103			
880-42901-9	Cell18-Square 3-S-3-4-240430	113			
880-42901-9 MS	Cell18-Square 3-S-3-4-240430	97			
LCS 860-159113/4	Lab Control Sample	108			
LCSD 860-159113/5	Lab Control Sample Dup	113			
MB 860-159113/7	Method Blank	98			
Surrogate Legend					

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils
BFB = 4-Bromofluorobenzene (Surr)

Job ID: 880-42901-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (42-112)	FBP (32-110)
880-42901-1	Cell20-Square 31-S-3-4-240430	90	93
880-42901-1 MS	Cell20-Square	92	94
	31-S-3-4-240430		
880-42901-1 MSD	Cell20-Square	96	104
	31-S-3-4-240430		
880-42901-2	Cell20-Square	100	105
	10-S-3-4-240430		
880-42901-3	Cell20-Square	105	112 X
	181-S-3-4-240430		
880-42901-4	Cell20-Square	88	93
	63-S-3-4-240430		
880-42901-5	Cell19-Square	91	94
	65-S-3-4-240430		
880-42901-6	Cell19-Square 2-S-3-4-240430	87	85
880-42901-7	Cell19-Square	101	100
	32-S-3-4-240430		
880-42901-8	Cell19-Square	87	86
	54-S-3-4-240430		
880-42901-9	Cell18-Square 3-S-3-4-240430	94	92
LCS 500-767857/2-A	Lab Control Sample	107	98
MB 500-767857/1-A	Method Blank	92	94
Surrogate Legend			
OTPH = o-Terphenyl (Surr)			
FBP = 2-Fluorobiphenyl			

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 880-42901-1 MS

Matrix: Solid

Analysis Batch: 158400

Client Sample ID: Cell20-Square 31-S-3-4-240430

Prep Type: Total/NA

Prep Batch: 158310

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Benzene	0.000543	U	0.0710	0.06202		mg/Kg	☼	87	71 - 119	
Toluene	0.00172	U	0.0710	0.06282		mg/Kg	☼	88	74 - 122	
Ethylbenzene	0.000432	U	0.0710	0.06226		mg/Kg	☼	88	80 - 123	
m,p-Xylenes	0.000615	U	0.0710	0.06087		mg/Kg	☼	86	78 - 127	
o-Xylene	0.000449	U	0.0710	0.06364		mg/Kg	☼	90	79 - 125	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	104		53 - 142
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 860-158400/10

Matrix: Solid

Analysis Batch: 158400

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000383	U	0.00100	0.000383	mg/Kg			05/04/24 00:43	1
Toluene	0.00121	U	0.00500	0.00121	mg/Kg			05/04/24 00:43	1
Ethylbenzene	0.000304	U	0.00100	0.000304	mg/Kg			05/04/24 00:43	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			05/04/24 00:43	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			05/04/24 00:43	1
Xylenes, Total	0.000433	U	0.00200	0.000433	mg/Kg			05/04/24 00:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		56 - 150		05/04/24 00:43	1
4-Bromofluorobenzene (Surr)	95		68 - 152		05/04/24 00:43	1
Dibromofluoromethane (Surr)	94		53 - 142		05/04/24 00:43	1
Toluene-d8 (Surr)	94		70 - 130		05/04/24 00:43	1

Lab Sample ID: LCS 860-158400/3

Matrix: Solid

Analysis Batch: 158400

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
Benzene	0.0500	0.04657		mg/Kg		93	66 - 142	
Toluene	0.0500	0.04697		mg/Kg		94	74 - 130	
Ethylbenzene	0.0500	0.04668		mg/Kg		93	80 - 130	
m,p-Xylenes	0.0500	0.04590		mg/Kg		92	78 - 130	
o-Xylene	0.0500	0.04778		mg/Kg		96	79 - 130	

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	103		53 - 142
Toluene-d8 (Surr)	100		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-158400/4

Matrix: Solid

Analysis Batch: 158400

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04625		mg/Kg		93	66 - 142	1	25
Toluene	0.0500	0.04582		mg/Kg		92	74 - 130	2	25
Ethylbenzene	0.0500	0.04573		mg/Kg		91	80 - 130	2	25
m,p-Xylenes	0.0500	0.04508		mg/Kg		90	78 - 130	2	25
o-Xylene	0.0500	0.04702		mg/Kg		94	79 - 130	2	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	107		53 - 142
Toluene-d8 (Surr)	99		70 - 130

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 880-42901-9 MS

Matrix: Solid

Analysis Batch: 159113

Client Sample ID: Cell18-Square 3-S-3-4-240430

Prep Type: Total/NA

Prep Batch: 158901

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 860-159113/7

Matrix: Solid

Analysis Batch: 159113

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			05/08/24 14:18	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		70 - 130		05/08/24 14:18	1

Lab Sample ID: LCS 860-159113/4

Matrix: Solid

Analysis Batch: 159113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 860-159113/5

Matrix: Solid

Analysis Batch: 159113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-767857/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 768026							Prep Batch: 767857			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
C10-C28	1.142	J	8.30	1.09	mg/Kg		05/14/24 11:03	05/15/24 13:26	1	
C28-C36	8.40	U	16.7	8.40	mg/Kg		05/14/24 11:03	05/15/24 13:26	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl (Surr)	92		42 - 112				05/14/24 11:03	05/15/24 13:26	1	
2-Fluorobiphenyl	94		32 - 110				05/14/24 11:03	05/15/24 13:26	1	

Lab Sample ID: LCS 500-767857/2-A							Client Sample ID: Lab Control Sample			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 768016							Prep Batch: 767857			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28			66.7	64.34		mg/Kg		97	56 - 122	
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
o-Terphenyl (Surr)	107		42 - 112							
2-Fluorobiphenyl	98		32 - 110							

Lab Sample ID: 880-42901-1 MS							Client Sample ID: Cell20-Square 31-S-3-4-240430			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 768026							Prep Batch: 767857			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	4.84	J b	136	126.1		mg/Kg	✖	89	56 - 122	
Surrogate	MS %Recovery	MS Qualifier	Limits							
o-Terphenyl (Surr)	92		42 - 112							
2-Fluorobiphenyl	94		32 - 110							

Lab Sample ID: 880-42901-1 MSD							Client Sample ID: Cell20-Square 31-S-3-4-240430			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 768026							Prep Batch: 767857			
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD RPD Limit
C10-C28	4.84	J b	142	134.0		mg/Kg	✖	91	56 - 122	6 30
Surrogate	MSD %Recovery	MSD Qualifier	Limits							
o-Terphenyl (Surr)	96		42 - 112							
2-Fluorobiphenyl	104		32 - 110							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-161057/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 161051							Prep Batch: 161057			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	5.00	U	10.0	5.00	mg/Kg		05/18/24 16:00	05/18/24 16:12	1	

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 860-161057/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 161051				Prep Batch: 161057						
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride			100	91.89		mg/Kg		92	80 - 120	

Lab Sample ID: LCSD 860-161057/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 161051				Prep Batch: 161057						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride			100	92.36		mg/Kg		92	80 - 120	1 20

Lab Sample ID: 880-42901-1 MS				Client Sample ID: Cell20-Square 31-S-3-4-240430						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 161051				Prep Batch: 161057						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	17.4		142	144.9		mg/Kg	⚠	90	80 - 120	

Lab Sample ID: 880-42901-1 MSD				Client Sample ID: Cell20-Square 31-S-3-4-240430						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 161051				Prep Batch: 161057						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	17.4		141	145.4		mg/Kg	⚠	91	80 - 120	0 15

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

GC/MS VOA

Prep Batch: 158310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-1	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-2	Cell20-Square 10-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-3	Cell20-Square 181-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-4	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-5	Cell19-Square 65-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-6	Cell19-Square 2-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-7	Cell19-Square 32-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-8	Cell19-Square 54-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-9	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-1 MS	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	5030C	

Analysis Batch: 158400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-1	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	8260C	158310
880-42901-2	Cell20-Square 10-S-3-4-240430	Total/NA	Solid	8260C	158310
880-42901-3	Cell20-Square 181-S-3-4-240430	Total/NA	Solid	8260C	158310
880-42901-4	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	8260C	158310
880-42901-5	Cell19-Square 65-S-3-4-240430	Total/NA	Solid	8260C	158310
880-42901-6	Cell19-Square 2-S-3-4-240430	Total/NA	Solid	8260C	158310
880-42901-7	Cell19-Square 32-S-3-4-240430	Total/NA	Solid	8260C	158310
880-42901-8	Cell19-Square 54-S-3-4-240430	Total/NA	Solid	8260C	158310
880-42901-9	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	8260C	158310
MB 860-158400/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-158400/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-158400/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-42901-1 MS	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	8260C	158310

GC VOA

Prep Batch: 158901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-1	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-2	Cell20-Square 10-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-3	Cell20-Square 181-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-4	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-5	Cell19-Square 65-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-6	Cell19-Square 2-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-7	Cell19-Square 32-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-8	Cell19-Square 54-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-9	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	5030C	
880-42901-9 MS	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	5030C	

Analysis Batch: 159113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-1	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	8015D	158901
880-42901-2	Cell20-Square 10-S-3-4-240430	Total/NA	Solid	8015D	158901
880-42901-3	Cell20-Square 181-S-3-4-240430	Total/NA	Solid	8015D	158901
880-42901-4	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	8015D	158901
880-42901-5	Cell19-Square 65-S-3-4-240430	Total/NA	Solid	8015D	158901
880-42901-6	Cell19-Square 2-S-3-4-240430	Total/NA	Solid	8015D	158901
880-42901-7	Cell19-Square 32-S-3-4-240430	Total/NA	Solid	8015D	158901

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

GC VOA (Continued)

Analysis Batch: 159113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-8	Cell19-Square 54-S-3-4-240430	Total/NA	Solid	8015D	158901
880-42901-9	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	8015D	158901
MB 860-159113/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-159113/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-159113/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
880-42901-9 MS	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	8015D	158901

GC Semi VOA

Prep Batch: 767857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-1	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	3546	
880-42901-2	Cell20-Square 10-S-3-4-240430	Total/NA	Solid	3546	
880-42901-3	Cell20-Square 181-S-3-4-240430	Total/NA	Solid	3546	
880-42901-4	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	3546	
880-42901-5	Cell19-Square 65-S-3-4-240430	Total/NA	Solid	3546	
880-42901-6	Cell19-Square 2-S-3-4-240430	Total/NA	Solid	3546	
880-42901-7	Cell19-Square 32-S-3-4-240430	Total/NA	Solid	3546	
880-42901-8	Cell19-Square 54-S-3-4-240430	Total/NA	Solid	3546	
880-42901-9	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	3546	
MB 500-767857/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-767857/2-A	Lab Control Sample	Total/NA	Solid	3546	
880-42901-1 MS	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	3546	
880-42901-1 MSD	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	3546	

Analysis Batch: 768016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-767857/2-A	Lab Control Sample	Total/NA	Solid	8015D	767857

Analysis Batch: 768026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-1	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	8015D	767857
880-42901-2	Cell20-Square 10-S-3-4-240430	Total/NA	Solid	8015D	767857
880-42901-3	Cell20-Square 181-S-3-4-240430	Total/NA	Solid	8015D	767857
880-42901-4	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	8015D	767857
880-42901-5	Cell19-Square 65-S-3-4-240430	Total/NA	Solid	8015D	767857
880-42901-6	Cell19-Square 2-S-3-4-240430	Total/NA	Solid	8015D	767857
880-42901-7	Cell19-Square 32-S-3-4-240430	Total/NA	Solid	8015D	767857
880-42901-8	Cell19-Square 54-S-3-4-240430	Total/NA	Solid	8015D	767857
880-42901-9	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	8015D	767857
MB 500-767857/1-A	Method Blank	Total/NA	Solid	8015D	767857
880-42901-1 MS	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	8015D	767857
880-42901-1 MSD	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	8015D	767857

HPLC/IC

Analysis Batch: 161051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-1	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	300.0	161057
880-42901-2	Cell20-Square 10-S-3-4-240430	Total/NA	Solid	300.0	161057
880-42901-3	Cell20-Square 181-S-3-4-240430	Total/NA	Solid	300.0	161057
880-42901-4	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	300.0	161057

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

HPLC/IC (Continued)

Analysis Batch: 161051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-5	Cell19-Square 65-S-3-4-240430	Total/NA	Solid	300.0	161057
880-42901-6	Cell19-Square 2-S-3-4-240430	Total/NA	Solid	300.0	161057
880-42901-7	Cell19-Square 32-S-3-4-240430	Total/NA	Solid	300.0	161057
880-42901-8	Cell19-Square 54-S-3-4-240430	Total/NA	Solid	300.0	161057
880-42901-9	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	300.0	161057
MB 860-161057/1-A	Method Blank	Total/NA	Solid	300.0	161057
LCS 860-161057/2-A	Lab Control Sample	Total/NA	Solid	300.0	161057
LCSD 860-161057/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	161057
880-42901-1 MS	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	300.0	161057
880-42901-1 MSD	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	300.0	161057

Prep Batch: 161057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-1	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	300_Prep	
880-42901-2	Cell20-Square 10-S-3-4-240430	Total/NA	Solid	300_Prep	
880-42901-3	Cell20-Square 181-S-3-4-240430	Total/NA	Solid	300_Prep	
880-42901-4	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	300_Prep	
880-42901-5	Cell19-Square 65-S-3-4-240430	Total/NA	Solid	300_Prep	
880-42901-6	Cell19-Square 2-S-3-4-240430	Total/NA	Solid	300_Prep	
880-42901-7	Cell19-Square 32-S-3-4-240430	Total/NA	Solid	300_Prep	
880-42901-8	Cell19-Square 54-S-3-4-240430	Total/NA	Solid	300_Prep	
880-42901-9	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	300_Prep	
MB 860-161057/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-161057/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-161057/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
880-42901-1 MS	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	300_Prep	
880-42901-1 MSD	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 158370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-1	Cell20-Square 31-S-3-4-240430	Total/NA	Solid	Moisture	
880-42901-2	Cell20-Square 10-S-3-4-240430	Total/NA	Solid	Moisture	
880-42901-3	Cell20-Square 181-S-3-4-240430	Total/NA	Solid	Moisture	
880-42901-4	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	Moisture	
880-42901-5	Cell19-Square 65-S-3-4-240430	Total/NA	Solid	Moisture	
880-42901-6	Cell19-Square 2-S-3-4-240430	Total/NA	Solid	Moisture	
880-42901-7	Cell19-Square 32-S-3-4-240430	Total/NA	Solid	Moisture	
880-42901-8	Cell19-Square 54-S-3-4-240430	Total/NA	Solid	Moisture	
MB 860-158370/1	Method Blank	Total/NA	Solid	Moisture	
880-42901-4 DU	Cell20-Square 63-S-3-4-240430	Total/NA	Solid	Moisture	

Analysis Batch: 158477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42901-9	Cell18-Square 3-S-3-4-240430	Total/NA	Solid	Moisture	
MB 860-158477/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell20-Square 31-S-3-4-240430
Date Collected: 04/30/24 09:12
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-1
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	Moisture		1			158370	05/03/24 13:15	LT	EET HOU

Client Sample ID: Cell20-Square 31-S-3-4-240430
Date Collected: 04/30/24 09:12
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-1
Matrix: Solid
Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	158310	05/03/24 09:24	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 01:03	MTMG	EET HOU
Total/NA	Prep	5030C			4.95 g	5 mL	158901	05/07/24 14:04	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159113	05/08/24 14:51	KLV	EET HOU
Total/NA	Prep	3546			10.0209 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 20:16	SB	EET CHI
Total/NA	Prep	300_Prep			5.03 g	50 mL	161057	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161051	05/18/24 19:48	AK1	EET HOU

Client Sample ID: Cell20-Square 10-S-3-4-240430
Date Collected: 04/30/24 09:38
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-2
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	Moisture		1			158370	05/03/24 13:15	LT	EET HOU

Client Sample ID: Cell20-Square 10-S-3-4-240430
Date Collected: 04/30/24 09:38
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-2
Matrix: Solid
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	158310	05/03/24 10:19	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 01:24	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	158901	05/07/24 14:04	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159113	05/08/24 15:24	KLV	EET HOU
Total/NA	Prep	3546			10.1847 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 21:28	SB	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	161057	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161051	05/18/24 20:17	AK1	EET HOU

Client Sample ID: Cell20-Square 181-S-3-4-240430
Date Collected: 04/30/24 10:16
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-3
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	Moisture		1			158370	05/03/24 13:15	LT	EET HOU

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell20-Square 181-S-3-4-240430

Lab Sample ID: 880-42901-3

Date Collected: 04/30/24 10:16

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	158310	05/03/24 10:19	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 01:44	MTMG	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	158901	05/07/24 14:04	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159113	05/08/24 15:57	KLV	EET HOU
Total/NA	Prep	3546			10.0564 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 21:52	SB	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	161057	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161051	05/18/24 20:27	AK1	EET HOU

Client Sample ID: Cell20-Square 63-S-3-4-240430

Lab Sample ID: 880-42901-4

Date Collected: 04/30/24 10:38

Matrix: Solid

Date Received: 04/30/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			158370	05/03/24 13:15	LT	EET HOU

Client Sample ID: Cell20-Square 63-S-3-4-240430

Lab Sample ID: 880-42901-4

Date Collected: 04/30/24 10:38

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	158310	05/03/24 10:19	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 02:05	MTMG	EET HOU
Total/NA	Prep	5030C			5.04 g	5 mL	158901	05/07/24 14:04	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159113	05/08/24 16:30	KLV	EET HOU
Total/NA	Prep	3546			10.0886 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 11:26	SB	EET CHI
Total/NA	Prep	300_Prep			5.03 g	50 mL	161057	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161051	05/18/24 20:56	AK1	EET HOU

Client Sample ID: Cell19-Square 65-S-3-4-240430

Lab Sample ID: 880-42901-5

Date Collected: 04/30/24 11:12

Matrix: Solid

Date Received: 04/30/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			158370	05/03/24 13:15	LT	EET HOU

Client Sample ID: Cell19-Square 65-S-3-4-240430

Lab Sample ID: 880-42901-5

Date Collected: 04/30/24 11:12

Matrix: Solid

Date Received: 04/30/24 16:25

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	158310	05/03/24 10:19	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 02:25	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	158901	05/07/24 14:04	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159113	05/08/24 17:03	KLV	EET HOU

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell19-Square 65-S-3-4-240430
Date Collected: 04/30/24 11:12
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-5
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10.1932 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 11:50	SB	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	161057	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161051	05/18/24 21:06	AK1	EET HOU

Client Sample ID: Cell19-Square 2-S-3-4-240430
Date Collected: 04/30/24 11:35
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			158370	05/03/24 13:15	LT	EET HOU

Client Sample ID: Cell19-Square 2-S-3-4-240430
Date Collected: 04/30/24 11:35
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-6
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	158310	05/03/24 10:19	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 02:46	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	158901	05/07/24 14:04	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159113	05/08/24 17:36	KLV	EET HOU
Total/NA	Prep	3546			10.0692 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 12:14	SB	EET CHI
Total/NA	Prep	300_Prep			5.04 g	50 mL	161057	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161051	05/18/24 21:16	AK1	EET HOU

Client Sample ID: Cell19-Square 32-S-3-4-240430
Date Collected: 04/30/24 11:54
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			158370	05/03/24 13:15	LT	EET HOU

Client Sample ID: Cell19-Square 32-S-3-4-240430
Date Collected: 04/30/24 11:54
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-7
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	158310	05/03/24 10:19	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 03:06	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	158901	05/07/24 14:04	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159113	05/08/24 18:09	KLV	EET HOU
Total/NA	Prep	3546			10.3648 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 12:38	SB	EET CHI
Total/NA	Prep	300_Prep			5.03 g	50 mL	161057	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161051	05/18/24 21:26	AK1	EET HOU

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Client Sample ID: Cell19-Square 54-S-3-4-240430
Date Collected: 04/30/24 12:13
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			158370	05/03/24 13:15	LT	EET HOU

Client Sample ID: Cell19-Square 54-S-3-4-240430
Date Collected: 04/30/24 12:13
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-8
Matrix: Solid
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	158310	05/03/24 10:19	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 03:27	MTMG	EET HOU
Total/NA	Prep	5030C			4.98 g	5 mL	158901	05/07/24 14:04	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159113	05/08/24 18:42	KLV	EET HOU
Total/NA	Prep	3546			10.4308 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 13:02	SB	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	161057	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161051	05/18/24 21:36	AK1	EET HOU

Client Sample ID: Cell18-Square 3-S-3-4-240430
Date Collected: 04/30/24 13:08
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			158477	05/03/24 16:48	LT	EET HOU

Client Sample ID: Cell18-Square 3-S-3-4-240430
Date Collected: 04/30/24 13:08
Date Received: 04/30/24 16:25

Lab Sample ID: 880-42901-9
Matrix: Solid
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	158310	05/03/24 10:19	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 03:48	MTMG	EET HOU
Total/NA	Prep	5030C			4.95 g	5 mL	158901	05/07/24 14:04	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159113	05/08/24 19:15	KLV	EET HOU
Total/NA	Prep	3546			10.6887 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 13:50	SB	EET CHI
Total/NA	Prep	300_Prep			5.00 g	50 mL	161057	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161051	05/18/24 21:46	AK1	EET HOU

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	04-29-24 *
Georgia (DW)	State	939	04-29-24 *
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	04-29-24 *
Iowa	State	082	05-01-24 *
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-24
Mississippi	State	NA	04-29-24 *
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3546	Microwave Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42901-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-42901-1	Cell20-Square 31-S-3-4-240430	Solid	04/30/24 09:12	04/30/24 16:25
880-42901-2	Cell20-Square 10-S-3-4-240430	Solid	04/30/24 09:38	04/30/24 16:25
880-42901-3	Cell20-Square 181-S-3-4-240430	Solid	04/30/24 10:16	04/30/24 16:25
880-42901-4	Cell20-Square 63-S-3-4-240430	Solid	04/30/24 10:38	04/30/24 16:25
880-42901-5	Cell19-Square 65-S-3-4-240430	Solid	04/30/24 11:12	04/30/24 16:25
880-42901-6	Cell19-Square 2-S-3-4-240430	Solid	04/30/24 11:35	04/30/24 16:25
880-42901-7	Cell19-Square 32-S-3-4-240430	Solid	04/30/24 11:54	04/30/24 16:25
880-42901-8	Cell19-Square 54-S-3-4-240430	Solid	04/30/24 12:13	04/30/24 16:25
880-42901-9	Cell18-Square 3-S-3-4-240430	Solid	04/30/24 13:08	04/30/24 16:25

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Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

-12901

eurofins

Client Information		Sampler: <i>Dany Sharyzme</i>		Lab PM: Kudchadkar Sachin G		Carrier Tracking No.	
Client Contact: Sarah Johnson		Phone: 432-288-0835		E-Mail: Sachin.Kudchadkar@eurofins.com		State of Origin	
Company: ARCADIS US Inc		PWSID					
Address: 1004 North Big Spring Suite 300		Due Date Requested: <i>08/20/24</i>		Analysis Requested			
City: Midland		TAT Requested (days): <i>3</i>					
State Zip: TX 79701		Compliance Project: <i>AT</i>					
Phone: 303-316-6506 (Tel)		PO #:					
Email: sarah.johnson@arcadis.com		WO #:					
Project Name: Chevron - Jal Land Farm Soils		Project #:					
Site: 86001348		SSOW#:					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B DRO (MOD) DRO	300_ORGM_28D Chloride	8015D GRO	8260C BTEX	moisture	Special Instructions/Note	
Cell 20-Square 31-S-3-4-240430	08/30/24	0912	G		Solid	X	X	X	X	X	X	X		
Cell 20-Square 10-S-3-4-240430	08/30/24	0938	G		Solid	X	X	X	X	X	X	X		
Cell 20-Square 181-S-3-4-240430	08/30/24	1012	G		Solid	X	X	X	X	X	X	X		
Cell 20-Square 63-S-3-4-240430	08/30/24	1038	G		Solid	X	X	X	X	X	X	X		
Cell 19-Square 65-S-3-4-240430	08/30/24	1112	G		Solid	X	X	X	X	X	X	X		
Cell 19-Square 2-S-3-4-240430	08/30/24	1135	G		Solid	X	X	X	X	X	X	X		
Cell 19-Square 32-S-3-4-240430	08/30/24	1454	G		Solid	X	X	X	X	X	X	X		
Cell 19-Square 54-S-3-4-240430	08/30/24	1213	G		Solid	X	X	X	X	X	X	X		
Cell 18-Square 3-S-3-4-240430	08/30/24	1308	G		Solid	X	X	X	X	X	X	X		
					Solid									
					Solid									

Possible Hazard Identification		☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	
Deliverable Requested I II III IV Other (specify)			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client ☒ Disposal By Lab	
Special Instructions/QC Requirements		Archive For _____ Months Method of Shipment: _____	

Empty Kit Relinquished by		Date	
Relinquished by: <i>Dany Sharyzme</i>		Date/Time: 08/30/24 1414	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact. ☐ Yes ☐ No		Custody Seal No	
Cooler Temperature(s) °C and Other Remarks:		8/1/80 -1 TAS	

Eurofins Midland

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler		Lab PM		Carrier Tracking No(s)		COC No:			
Client Contact		Phone		E-Mail		State of Origin		Page			
Shipping/Receiving				Sachin Kudchadkar@et.eurofinsus.com		Texas		Page 1 of 1			
Company				Accreditations Required (See note)				Job #			
Eurofins Environment Testing North Centr				NELAP - Texas				880-42901-1			
Address		Due Date Requested		Analysis Requested						Preservation Codes:	
2417 Bond Street,		5/10/2024									
City		TAT Requested (days)									
University Park											
State Zip		PO #		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015D_DRO/3546 (MOD) Local Method		Total Number of containers	
IL, 60484		WO #									
Phone		Project #									
708-534-5200(Tel) 708-534-5211(Fax)		86001348									
Email		SSOW#									
Project Name		Site									
Chevron - Jal Land Farm Soils		880-42901 COC									
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:	
Cell20-Square 31-S-3-4-240430 (880-42901-1)		4/30/24		09 12 Central		Solid		X		1	
Cell20-Square 10-S-3-4-240430 (880-42901-2)		4/30/24		09 38 Central		Solid		X		1	
Cell20-Square 181-S-3-4-240430 (880-42901-3)		4/30/24		10 16 Central		Solid		X		1	
Cell20-Square 63-S-3-4-240430 (880-42901-4)		4/30/24		10 38 Central		Solid		X		1	
Cell19-Square 65-S-3-4-240430 (880-42901-5)		4/30/24		11 12 Central		Solid		X		1	
Cell19-Square 2-S-3-4-240430 (880-42901-6)		4/30/24		11 35 Central		Solid		X		1	
Cell19-Square 32-S-3-4-240430 (880-42901-7)		4/30/24		11 54 Central		Solid		X		1	
Cell19-Square 54-S-3-4-240430 (880-42901-8)		4/30/24		12 13 Central		Solid		X		1	
Cell18-Square 3-S-3-4-240430 (880-42901-9)		4/30/24		13 08 Central		Solid		X		1	
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)						Primary Deliverable Rank 2		Special Instructions/QC Requirements			
Empty Kit Relinquished by				Date		Time		Method of Shipment			
Relinquished by				Date/Time		Company		Received by		Date/Time	
Relinquished by				Date/Time		Company		Received by		Date/Time	
Relinquished by				Date/Time		Company		Received by		Date/Time	
Custody Seals Intact.				Custody Seal No		Page 30 of 38		Cooler Temperature(s) °C and Other Remarks.		5/22/2024	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42901-1

Login Number: 42901

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42901-1

Login Number: 42901

List Number: 3

Creator: Scott, Sherri L

List Source: Eurofins Chicago

List Creation: 05/02/24 02:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
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	1.8
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42901-1

Login Number: 42901

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 05/02/24 01:31 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 5/22/2024 7:03:41 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

880-42943-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
5/22/2024 7:03:41 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-42943-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Job ID: 880-42943-1

Eurofins Midland

Job Narrative 880-42943-1

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 5/1/2024 1:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.8°C.

GC/MS VOA

Method 8260C: Sample is in a bulk jar.

Cell 18-Square 95-S-3-4-240501 (880-42943-1), Cell 18-Square 141-S-3-4-240501 (880-42943-2), (880-42901-C-1-A) and (880-42901-C-1-B MS)

Method 8260C: Sample is in a bulk jar.

Cell 18-Square 42-S-3-4-240501 (880-42943-3) and Cell 17-Square 43-S-3-4-240501 (880-42943-4)

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

Gasoline Range Organics

Method 8015D_GRO: The matrix spike (MS) recoveries for preparation batch 860-159369 and analytical batch 860-159371 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Diesel Range Organics

Method 8015D_DRO: The method blank for preparation batch 500-767857 and analytical batch 500-768026 contained C10-C28 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-161053 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

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

General Chemistry

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

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Client Sample ID: Cell 18-Square 95-S-3-4-240501

Lab Sample ID: 880-42943-1

Date Collected: 05/01/24 08:22

Matrix: Solid

Date Received: 05/01/24 13:09

Percent Solids: 91.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000420	U	0.00110	0.000420	mg/Kg	✧	05/03/24 11:17	05/04/24 07:13	1
Toluene	0.00133	U	0.00549	0.00133	mg/Kg	✧	05/03/24 11:17	05/04/24 07:13	1
Ethylbenzene	0.000334	U	0.00110	0.000334	mg/Kg	✧	05/03/24 11:17	05/04/24 07:13	1
m,p-Xylenes	0.000476	U	0.00220	0.000476	mg/Kg	✧	05/03/24 11:17	05/04/24 07:13	1
o-Xylene	0.000347	U	0.00110	0.000347	mg/Kg	✧	05/03/24 11:17	05/04/24 07:13	1
Xylenes, Total	0.000476	U	0.00220	0.000476	mg/Kg	✧	05/03/24 11:17	05/04/24 07:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	05/03/24 11:17	05/04/24 07:13	1
4-Bromofluorobenzene (Surr)	68		68 - 152	05/03/24 11:17	05/04/24 07:13	1
Dibromofluoromethane (Surr)	102		53 - 142	05/03/24 11:17	05/04/24 07:13	1
Toluene-d8 (Surr)	95		70 - 130	05/03/24 11:17	05/04/24 07:13	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.76	U	11.1	2.76	mg/Kg	✧	05/09/24 13:09	05/09/24 19:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	05/09/24 13:09	05/09/24 19:00	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.36	J b	13.4	1.76	mg/Kg	✧	05/14/24 11:03	05/15/24 22:16	1
C28-C36	13.8	J	27.0	13.6	mg/Kg	✧	05/14/24 11:03	05/15/24 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	90		42 - 112	05/14/24 11:03	05/15/24 22:16	1
2-Fluorobiphenyl	94		32 - 110	05/14/24 11:03	05/15/24 22:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1		10.9	5.47	mg/Kg	✧	05/18/24 16:00	05/18/24 21:41	1

Client Sample ID: Cell 18-Square 141-S-3-4-240501

Lab Sample ID: 880-42943-2

Date Collected: 05/01/24 08:51

Matrix: Solid

Date Received: 05/01/24 13:09

Percent Solids: 90.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000424	U	0.00111	0.000424	mg/Kg	✧	05/03/24 11:17	05/04/24 07:33	1
Toluene	0.00134	U	0.00554	0.00134	mg/Kg	✧	05/03/24 11:17	05/04/24 07:33	1
Ethylbenzene	0.000337	U	0.00111	0.000337	mg/Kg	✧	05/03/24 11:17	05/04/24 07:33	1
m,p-Xylenes	0.000480	U	0.00222	0.000480	mg/Kg	✧	05/03/24 11:17	05/04/24 07:33	1
o-Xylene	0.000350	U	0.00111	0.000350	mg/Kg	✧	05/03/24 11:17	05/04/24 07:33	1
Xylenes, Total	0.000480	U	0.00222	0.000480	mg/Kg	✧	05/03/24 11:17	05/04/24 07:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	05/03/24 11:17	05/04/24 07:33	1
4-Bromofluorobenzene (Surr)	97		68 - 152	05/03/24 11:17	05/04/24 07:33	1
Dibromofluoromethane (Surr)	93		53 - 142	05/03/24 11:17	05/04/24 07:33	1
Toluene-d8 (Surr)	96		70 - 130	05/03/24 11:17	05/04/24 07:33	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Client Sample ID: Cell 18-Square 141-S-3-4-240501

Lab Sample ID: 880-42943-2

Date Collected: 05/01/24 08:51

Matrix: Solid

Date Received: 05/01/24 13:09

Percent Solids: 90.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.74	U	10.9	2.74	mg/Kg	☼	05/09/24 13:09	05/09/24 19:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				05/09/24 13:09	05/09/24 19:33	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.40	J b	13.1	1.72	mg/Kg	☼	05/14/24 11:03	05/15/24 22:40	1
C28-C36	13.9	J	26.3	13.3	mg/Kg	☼	05/14/24 11:03	05/15/24 22:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	94		42 - 112				05/14/24 11:03	05/15/24 22:40	1
2-Fluorobiphenyl	101		32 - 110				05/14/24 11:03	05/15/24 22:40	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.2		11.1	5.53	mg/Kg	☼	05/18/24 16:00	05/18/24 21:54	1

Client Sample ID: Cell 18-Square 42-S-3-4-240501

Lab Sample ID: 880-42943-3

Date Collected: 05/01/24 09:16

Matrix: Solid

Date Received: 05/01/24 13:09

Percent Solids: 77.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000488	U	0.00128	0.000488	mg/Kg	☼	05/03/24 11:17	05/04/24 02:26	1
Toluene	0.00155	U	0.00638	0.00155	mg/Kg	☼	05/03/24 11:17	05/04/24 02:26	1
Ethylbenzene	0.000388	U	0.00128	0.000388	mg/Kg	☼	05/03/24 11:17	05/04/24 02:26	1
m,p-Xylenes	0.000552	U	0.00255	0.000552	mg/Kg	☼	05/03/24 11:17	05/04/24 02:26	1
o-Xylene	0.000403	U	0.00128	0.000403	mg/Kg	☼	05/03/24 11:17	05/04/24 02:26	1
Xylenes, Total	0.000552	U	0.00255	0.000552	mg/Kg	☼	05/03/24 11:17	05/04/24 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150				05/03/24 11:17	05/04/24 02:26	1
4-Bromofluorobenzene (Surr)	96		68 - 152				05/03/24 11:17	05/04/24 02:26	1
Dibromofluoromethane (Surr)	97		53 - 142				05/03/24 11:17	05/04/24 02:26	1
Toluene-d8 (Surr)	106		70 - 130				05/03/24 11:17	05/04/24 02:26	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.18	U	12.7	3.18	mg/Kg	☼	05/09/24 13:09	05/09/24 20:06	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/09/24 13:09	05/09/24 20:06	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6.72	J b	15.8	2.07	mg/Kg	☼	05/14/24 11:03	05/15/24 14:14	1
C28-C36	19.4	J	31.8	16.0	mg/Kg	☼	05/14/24 11:03	05/15/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	95		42 - 112				05/14/24 11:03	05/15/24 14:14	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Client Sample ID: Cell 18-Square 42-S-3-4-240501

Lab Sample ID: 880-42943-3

Date Collected: 05/01/24 09:16

Matrix: Solid

Date Received: 05/01/24 13:09

Percent Solids: 77.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		32 - 110	05/14/24 11:03	05/15/24 14:14	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.96	J	12.8	6.42	mg/Kg	☆	05/18/24 16:00	05/18/24 22:06	1

Client Sample ID: Cell 17-Square 43-S-3-4-240501

Lab Sample ID: 880-42943-4

Date Collected: 05/01/24 09:44

Matrix: Solid

Date Received: 05/01/24 13:09

Percent Solids: 93.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000413	U	0.00108	0.000413	mg/Kg	☆	05/03/24 11:17	05/04/24 02:48	1
Toluene	0.00131	U	0.00540	0.00131	mg/Kg	☆	05/03/24 11:17	05/04/24 02:48	1
Ethylbenzene	0.000329	U	0.00108	0.000329	mg/Kg	☆	05/03/24 11:17	05/04/24 02:48	1
m,p-Xylenes	0.000467	U	0.00216	0.000467	mg/Kg	☆	05/03/24 11:17	05/04/24 02:48	1
o-Xylene	0.000341	U	0.00108	0.000341	mg/Kg	☆	05/03/24 11:17	05/04/24 02:48	1
Xylenes, Total	0.000467	U	0.00216	0.000467	mg/Kg	☆	05/03/24 11:17	05/04/24 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		56 - 150	05/03/24 11:17	05/04/24 02:48	1
4-Bromofluorobenzene (Surr)	96		68 - 152	05/03/24 11:17	05/04/24 02:48	1
Dibromofluoromethane (Surr)	99		53 - 142	05/03/24 11:17	05/04/24 02:48	1
Toluene-d8 (Surr)	107		70 - 130	05/03/24 11:17	05/04/24 02:48	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.52	J	10.7	2.67	mg/Kg	☆	05/09/24 13:09	05/09/24 20:39	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/09/24 13:09	05/09/24 20:39	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.10	J b	13.3	1.74	mg/Kg	☆	05/14/24 11:03	05/15/24 14:38	1
C28-C36	13.4	U	26.7	13.4	mg/Kg	☆	05/14/24 11:03	05/15/24 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	91		42 - 112	05/14/24 11:03	05/15/24 14:38	1
2-Fluorobiphenyl	92		32 - 110	05/14/24 11:03	05/15/24 14:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	439		10.7	5.35	mg/Kg	☆	05/18/24 16:00	05/18/24 22:18	1

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Method: 8260C - Volatile Organic Compounds by GC/MS
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(56-150)	(68-152)	(53-142)	(70-130)
880-42943-1	Cell 18-Square 95-S-3-4-240501	106	68	102	95
880-42943-2	Cell 18-Square 141-S-3-4-240501	104	97	93	96
880-42943-3	Cell 18-Square 42-S-3-4-240501	100	96	97	106
880-42943-4	Cell 17-Square 43-S-3-4-240501	97	96	99	107
LCS 860-158400/3	Lab Control Sample	103	100	103	100
LCS 860-158420/3	Lab Control Sample	97	96	101	107
LCSD 860-158400/4	Lab Control Sample Dup	103	100	107	99
LCSD 860-158420/4	Lab Control Sample Dup	97	98	98	108
MB 860-158400/10	Method Blank	103	95	94	94
MB 860-158420/10	Method Blank	98	95	97	106
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

Method: 8015D - Gasoline Range Organics (GRO) (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	BFB1						
		(70-130)						
880-42943-1	Cell 18-Square 95-S-3-4-240501	114						
880-42943-2	Cell 18-Square	100						
	141-S-3-4-240501							
880-42943-3	Cell 18-Square	106						
	42-S-3-4-240501							
880-42943-4	Cell 17-Square	107						
	43-S-3-4-240501							
880-42943-4 MS	Cell 17-Square	101						
	43-S-3-4-240501							
LCS 860-159371/4	Lab Control Sample	103						
LCSD 860-159371/5	Lab Control Sample Dup	102						
MB 860-159371/7	Method Blank	107						
Surrogate Legend								
BFB = 4-Bromofluorobenzene (Surr)								

Method: 8015D - Diesel Range Organics (DRO) (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH	FBP
		(42-112)	(32-110)
880-42943-1	Cell 18-Square 95-S-3-4-240501	90	94
880-42943-2	Cell 18-Square 141-S-3-4-240501	94	101
880-42943-3	Cell 18-Square 42-S-3-4-240501	95	93

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 880-42943-1

Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (42-112)	FBP (32-110)
880-42943-4	Cell 17-Square 43-S-3-4-240501	91	92
LCS 500-767857/2-A	Lab Control Sample	107	98
MB 500-767857/1-A	Method Blank	92	94
Surrogate Legend			
OTPH = o-Terphenyl (Surr)			
FBP = 2-Fluorobiphenyl			

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-158400/10

Matrix: Solid

Analysis Batch: 158400

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000383	U	0.00100	0.000383	mg/Kg			05/04/24 00:43	1
Toluene	0.00121	U	0.00500	0.00121	mg/Kg			05/04/24 00:43	1
Ethylbenzene	0.000304	U	0.00100	0.000304	mg/Kg			05/04/24 00:43	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			05/04/24 00:43	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			05/04/24 00:43	1
Xylenes, Total	0.000433	U	0.00200	0.000433	mg/Kg			05/04/24 00:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150		05/04/24 00:43	1
4-Bromofluorobenzene (Surr)	95		68 - 152		05/04/24 00:43	1
Dibromofluoromethane (Surr)	94		53 - 142		05/04/24 00:43	1
Toluene-d8 (Surr)	94		70 - 130		05/04/24 00:43	1

Lab Sample ID: LCS 860-158400/3

Matrix: Solid

Analysis Batch: 158400

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04657		mg/Kg		93	66 - 142
Toluene	0.0500	0.04697		mg/Kg		94	74 - 130
Ethylbenzene	0.0500	0.04668		mg/Kg		93	80 - 130
m,p-Xylenes	0.0500	0.04590		mg/Kg		92	78 - 130
o-Xylene	0.0500	0.04778		mg/Kg		96	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	103		53 - 142
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 860-158400/4

Matrix: Solid

Analysis Batch: 158400

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04625		mg/Kg		93	66 - 142	1	25
Toluene	0.0500	0.04582		mg/Kg		92	74 - 130	2	25
Ethylbenzene	0.0500	0.04573		mg/Kg		91	80 - 130	2	25
m,p-Xylenes	0.0500	0.04508		mg/Kg		90	78 - 130	2	25
o-Xylene	0.0500	0.04702		mg/Kg		94	79 - 130	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	107		53 - 142
Toluene-d8 (Surr)	99		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-158420/10

Matrix: Solid

Analysis Batch: 158420

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000383	U	0.00100	0.000383	mg/Kg			05/04/24 01:44	1
Toluene	0.00121	U	0.00500	0.00121	mg/Kg			05/04/24 01:44	1
Ethylbenzene	0.000304	U	0.00100	0.000304	mg/Kg			05/04/24 01:44	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			05/04/24 01:44	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			05/04/24 01:44	1
Xylenes, Total	0.000433	U	0.00200	0.000433	mg/Kg			05/04/24 01:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		56 - 150		05/04/24 01:44	1
4-Bromofluorobenzene (Surr)	95		68 - 152		05/04/24 01:44	1
Dibromofluoromethane (Surr)	97		53 - 142		05/04/24 01:44	1
Toluene-d8 (Surr)	106		70 - 130		05/04/24 01:44	1

Lab Sample ID: LCS 860-158420/3

Matrix: Solid

Analysis Batch: 158420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04297		mg/Kg		86	66 - 142
Toluene	0.0500	0.04730		mg/Kg		95	74 - 130
Ethylbenzene	0.0500	0.04698		mg/Kg		94	80 - 130
m,p-Xylenes	0.0500	0.04668		mg/Kg		93	78 - 130
o-Xylene	0.0500	0.04745		mg/Kg		95	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		56 - 150
4-Bromofluorobenzene (Surr)	96		68 - 152
Dibromofluoromethane (Surr)	101		53 - 142
Toluene-d8 (Surr)	107		70 - 130

Lab Sample ID: LCSD 860-158420/4

Matrix: Solid

Analysis Batch: 158420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04295		mg/Kg		86	66 - 142	0	25
Toluene	0.0500	0.04706		mg/Kg		94	74 - 130	1	25
Ethylbenzene	0.0500	0.04663		mg/Kg		93	80 - 130	1	25
m,p-Xylenes	0.0500	0.04607		mg/Kg		92	78 - 130	1	25
o-Xylene	0.0500	0.04710		mg/Kg		94	79 - 130	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		56 - 150
4-Bromofluorobenzene (Surr)	98		68 - 152
Dibromofluoromethane (Surr)	98		53 - 142
Toluene-d8 (Surr)	108		70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 880-42943-4 MS

Matrix: Solid

Analysis Batch: 159371

Client Sample ID: Cell 17-Square 43-S-3-4-240501

Prep Type: Total/NA

Prep Batch: 159369

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 860-159371/7

Matrix: Solid

Analysis Batch: 159371

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			05/09/24 14:27	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	107		70 - 130		05/09/24 14:27	1			

Lab Sample ID: LCS 860-159371/4

Matrix: Solid

Analysis Batch: 159371

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 860-159371/5

Matrix: Solid

Analysis Batch: 159371

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-767857/1-A

Matrix: Solid

Analysis Batch: 768026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 767857

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C28	1.142	J	8.30	1.09	mg/Kg		05/14/24 11:03	05/15/24 13:26	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		05/14/24 11:03	05/15/24 13:26	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
o-Terphenyl (Surr)	92		42 - 112	05/14/24 11:03	05/15/24 13:26	1			
2-Fluorobiphenyl	94		32 - 110	05/14/24 11:03	05/15/24 13:26	1			

Lab Sample ID: LCS 500-767857/2-A

Matrix: Solid

Analysis Batch: 768016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 767857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	66.7	64.34		mg/Kg		97	56 - 122

Eurofins Midland

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

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

Lab Sample ID: LCS 500-767857/2-A
Matrix: Solid
Analysis Batch: 768016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 767857

Surrogate	LCS		Limits
	%Recovery	Qualifier	
o-Terphenyl (Surr)	107		42 - 112
2-Fluorobiphenyl	98		32 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LLCS 860-161053/7
Matrix: Solid
Analysis Batch: 161053

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5130	J	mg/Kg		103	

Lab Sample ID: MB 860-161056/1-A
Matrix: Solid
Analysis Batch: 161053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161056

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	5.00	U	10.0	5.00	mg/Kg		05/18/24 16:00	05/18/24 16:26	1

Lab Sample ID: LCS 860-161056/2-A
Matrix: Solid
Analysis Batch: 161053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	98.09		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 860-161056/3-A
Matrix: Solid
Analysis Batch: 161053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 161056

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	100	98.53		mg/Kg		99	80 - 120	0	20

QC Association Summary

Client: Arcadis U.S., Inc.

Job ID: 880-42943-1

Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 158344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-1	Cell 18-Square 95-S-3-4-240501	Total/NA	Solid	5030C	
880-42943-2	Cell 18-Square 141-S-3-4-240501	Total/NA	Solid	5030C	
880-42943-3	Cell 18-Square 42-S-3-4-240501	Total/NA	Solid	5030C	
880-42943-4	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	5030C	

Analysis Batch: 158400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-1	Cell 18-Square 95-S-3-4-240501	Total/NA	Solid	8260C	158344
880-42943-2	Cell 18-Square 141-S-3-4-240501	Total/NA	Solid	8260C	158344
MB 860-158400/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-158400/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-158400/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 158420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-3	Cell 18-Square 42-S-3-4-240501	Total/NA	Solid	8260C	158344
880-42943-4	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	8260C	158344
MB 860-158420/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-158420/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-158420/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC VOA

Prep Batch: 159369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-1	Cell 18-Square 95-S-3-4-240501	Total/NA	Solid	5030C	
880-42943-2	Cell 18-Square 141-S-3-4-240501	Total/NA	Solid	5030C	
880-42943-3	Cell 18-Square 42-S-3-4-240501	Total/NA	Solid	5030C	
880-42943-4	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	5030C	
880-42943-4 MS	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	5030C	

Analysis Batch: 159371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-1	Cell 18-Square 95-S-3-4-240501	Total/NA	Solid	8015D	159369
880-42943-2	Cell 18-Square 141-S-3-4-240501	Total/NA	Solid	8015D	159369
880-42943-3	Cell 18-Square 42-S-3-4-240501	Total/NA	Solid	8015D	159369
880-42943-4	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	8015D	159369
MB 860-159371/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-159371/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-159371/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
880-42943-4 MS	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	8015D	159369

GC Semi VOA

Prep Batch: 767857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-1	Cell 18-Square 95-S-3-4-240501	Total/NA	Solid	3546	
880-42943-2	Cell 18-Square 141-S-3-4-240501	Total/NA	Solid	3546	
880-42943-3	Cell 18-Square 42-S-3-4-240501	Total/NA	Solid	3546	
880-42943-4	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	3546	
MB 500-767857/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-767857/2-A	Lab Control Sample	Total/NA	Solid	3546	

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

GC Semi VOA

Analysis Batch: 768016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-767857/2-A	Lab Control Sample	Total/NA	Solid	8015D	767857

Analysis Batch: 768026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-1	Cell 18-Square 95-S-3-4-240501	Total/NA	Solid	8015D	767857
880-42943-2	Cell 18-Square 141-S-3-4-240501	Total/NA	Solid	8015D	767857
880-42943-3	Cell 18-Square 42-S-3-4-240501	Total/NA	Solid	8015D	767857
880-42943-4	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	8015D	767857
MB 500-767857/1-A	Method Blank	Total/NA	Solid	8015D	767857

HPLC/IC

Analysis Batch: 161053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-1	Cell 18-Square 95-S-3-4-240501	Total/NA	Solid	300.0	161056
880-42943-2	Cell 18-Square 141-S-3-4-240501	Total/NA	Solid	300.0	161056
880-42943-3	Cell 18-Square 42-S-3-4-240501	Total/NA	Solid	300.0	161056
880-42943-4	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	300.0	161056
MB 860-161056/1-A	Method Blank	Total/NA	Solid	300.0	161056
LCS 860-161056/2-A	Lab Control Sample	Total/NA	Solid	300.0	161056
LCSD 860-161056/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	161056
LLCS 860-161053/7	Lab Control Sample	Total/NA	Solid	300.0	

Prep Batch: 161056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-1	Cell 18-Square 95-S-3-4-240501	Total/NA	Solid	300_Prep	
880-42943-2	Cell 18-Square 141-S-3-4-240501	Total/NA	Solid	300_Prep	
880-42943-3	Cell 18-Square 42-S-3-4-240501	Total/NA	Solid	300_Prep	
880-42943-4	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	300_Prep	
MB 860-161056/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-161056/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-161056/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 158359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42943-1	Cell 18-Square 95-S-3-4-240501	Total/NA	Solid	Moisture	
880-42943-2	Cell 18-Square 141-S-3-4-240501	Total/NA	Solid	Moisture	
880-42943-3	Cell 18-Square 42-S-3-4-240501	Total/NA	Solid	Moisture	
880-42943-4	Cell 17-Square 43-S-3-4-240501	Total/NA	Solid	Moisture	
MB 860-158359/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Client Sample ID: Cell 18-Square 95-S-3-4-240501
Date Collected: 05/01/24 08:22
Date Received: 05/01/24 13:09

Lab Sample ID: 880-42943-1
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	Moisture		1			158359	05/03/24 11:58	LT	EET HOU

Client Sample ID: Cell 18-Square 95-S-3-4-240501
Date Collected: 05/01/24 08:22
Date Received: 05/01/24 13:09

Lab Sample ID: 880-42943-1
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	158344	05/03/24 11:17	AN	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 07:13	MTMG	EET HOU
Total/NA	Prep	5030C			4.97 g	5 mL	159369	05/09/24 13:09	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159371	05/09/24 19:00	KLV	EET HOU
Total/NA	Prep	3546			10.2107 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 22:16	SB	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	161056	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161053	05/18/24 21:41	W1N	EET HOU

Client Sample ID: Cell 18-Square 141-S-3-4-240501
Date Collected: 05/01/24 08:51
Date Received: 05/01/24 13:09

Lab Sample ID: 880-42943-2
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	Moisture		1			158359	05/03/24 11:58	LT	EET HOU

Client Sample ID: Cell 18-Square 141-S-3-4-240501
Date Collected: 05/01/24 08:51
Date Received: 05/01/24 13:09

Lab Sample ID: 880-42943-2
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	158344	05/03/24 11:17	AN	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158400	05/04/24 07:33	MTMG	EET HOU
Total/NA	Prep	5030C			5.05 g	5 mL	159369	05/09/24 13:09	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159371	05/09/24 19:33	KLV	EET HOU
Total/NA	Prep	3546			10.5129 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 22:40	SB	EET CHI
Total/NA	Prep	300_Prep			5.00 g	50 mL	161056	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161053	05/18/24 21:54	W1N	EET HOU

Client Sample ID: Cell 18-Square 42-S-3-4-240501
Date Collected: 05/01/24 09:16
Date Received: 05/01/24 13:09

Lab Sample ID: 880-42943-3
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	Moisture		1			158359	05/03/24 11:58	LT	EET HOU

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Client Sample ID: Cell 18-Square 42-S-3-4-240501
Date Collected: 05/01/24 09:16
Date Received: 05/01/24 13:09

Lab Sample ID: 880-42943-3
Matrix: Solid
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	158344	05/03/24 11:17	AN	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158420	05/04/24 02:26	MTMG	EET HOU
Total/NA	Prep	5030C			5.04 g	5 mL	159369	05/09/24 13:09	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159371	05/09/24 20:06	KLV	EET HOU
Total/NA	Prep	3546			10.1218 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 14:14	SB	EET CHI
Total/NA	Prep	300_Prep			5.00 g	50 mL	161056	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161053	05/18/24 22:06	W1N	EET HOU

Client Sample ID: Cell 17-Square 43-S-3-4-240501
Date Collected: 05/01/24 09:44
Date Received: 05/01/24 13:09

Lab Sample ID: 880-42943-4
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	Moisture		1			158359	05/03/24 11:58	LT	EET HOU

Client Sample ID: Cell 17-Square 43-S-3-4-240501
Date Collected: 05/01/24 09:44
Date Received: 05/01/24 13:09

Lab Sample ID: 880-42943-4
Matrix: Solid
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.96 g	5 mL	158344	05/03/24 11:17	AN	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	158420	05/04/24 02:48	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	159369	05/09/24 13:09	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	159371	05/09/24 20:39	KLV	EET HOU
Total/NA	Prep	3546			10.0415 g	2.5 mL	767857	05/14/24 11:03	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	768026	05/15/24 14:38	SB	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	161056	05/18/24 16:00	RBNS	EET HOU
Total/NA	Analysis	300.0		1			161053	05/18/24 22:18	W1N	EET HOU

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	04-29-24 *
Georgia (DW)	State	939	04-29-24 *
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	04-29-24 *
Iowa	State	082	05-01-24 *
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-24
Mississippi	State	NA	04-29-24 *
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3546	Microwave Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:
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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-42943-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-42943-1	Cell 18-Square 95-S-3-4-240501	Solid	05/01/24 08:22	05/01/24 13:09
880-42943-2	Cell 18-Square 141-S-3-4-240501	Solid	05/01/24 08:51	05/01/24 13:09
880-42943-3	Cell 18-Square 42-S-3-4-240501	Solid	05/01/24 09:16	05/01/24 13:09
880-42943-4	Cell 17-Square 43-S-3-4-240501	Solid	05/01/24 09:44	05/01/24 13:09

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Chain of Custody Record

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Client Information		Sampler	Lab PM	Carrier Track
Client Contact:		Phone	E-Mail	State of Origin
Sarah Johnson		432 288-0876	Kudchadkar Sachin G	Sachin Kudchadkar@eurofinus.com

880-42943 Chain of Custody

[illegible]

Ver. 01/16/2019

Eurofins Midland

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

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42943-1

Login Number: 42943

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
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	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42943-1

Login Number: 42943

List Number: 3

Creator: Scott, Sherri L

List Source: Eurofins Chicago

List Creation: 05/02/24 02:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
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	1.8
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42943-1

Login Number: 42943

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 05/02/24 01:21 PM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/13/2024 2:43:11 PM Revision 1

JOB DESCRIPTION

Jal Landfarm

JOB NUMBER

880-43273-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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

Generated
6/13/2024 2:43:11 PM
Revision 1

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Laboratory Job ID: 880-43273-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Arcadis U.S., Inc.
Project: Jal Landfarm

Job ID: 880-43273-1

Job ID: 880-43273-1

Eurofins Midland

Job Narrative
880-43273-1

REVISION

The report being provided is a revision of the original report sent on 5/13/2024. The report (revision 1) is being revised due to Revised report to reprocess data down to the MDL.

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 5/8/2024 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 9.5°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: Cell 21 Sq 126-s-3-4-240508 (880-43273-4). 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 Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Client Sample ID: Cell 17 Square 25-s-3-4-240508

Lab Sample ID: 880-43273-1

Date Collected: 05/08/24 10:35

Matrix: Solid

Date Received: 05/08/24 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		05/09/24 14:10	05/10/24 02:24	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/09/24 14:10	05/10/24 02:24	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/09/24 14:10	05/10/24 02:24	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		05/09/24 14:10	05/10/24 02:24	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		05/09/24 14:10	05/10/24 02:24	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		05/09/24 14:10	05/10/24 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/09/24 14:10	05/10/24 02:24	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/09/24 14:10	05/10/24 02:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			05/10/24 02:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.5		49.8	14.9	mg/Kg			05/11/24 00:40	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	42.2	J B	49.8	10.9	mg/Kg		05/10/24 09:10	05/11/24 00:40	1
Diesel Range Organics (Over C10-C28)	18.3	J B	49.8	14.9	mg/Kg		05/10/24 09:10	05/11/24 00:40	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.8	12.5	mg/Kg		05/10/24 09:10	05/11/24 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	05/10/24 09:10	05/11/24 00:40	1
o-Terphenyl	123		70 - 130	05/10/24 09:10	05/11/24 00:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	495		4.98	0.393	mg/Kg			05/10/24 10:04	1

Client Sample ID: Cell 17 Sq 5-s-3-4-240508

Lab Sample ID: 880-43273-2

Date Collected: 05/08/24 10:52

Matrix: Solid

Date Received: 05/08/24 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		05/09/24 14:10	05/10/24 02:45	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		05/09/24 14:10	05/10/24 02:45	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		05/09/24 14:10	05/10/24 02:45	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		05/09/24 14:10	05/10/24 02:45	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		05/09/24 14:10	05/10/24 02:45	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		05/09/24 14:10	05/10/24 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/09/24 14:10	05/10/24 02:45	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/09/24 14:10	05/10/24 02:45	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Client Sample ID: Cell 17 Sq 5-s-3-4-240508

Lab Sample ID: 880-43273-2

Date Collected: 05/08/24 10:52

Matrix: Solid

Date Received: 05/08/24 16:50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			05/10/24 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.9		49.9	15.0	mg/Kg			05/11/24 00:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.7	J B	49.9	10.9	mg/Kg		05/10/24 09:10	05/11/24 00:58	1
Diesel Range Organics (Over C10-C28)	24.2	J B	49.9	15.0	mg/Kg		05/10/24 09:10	05/11/24 00:58	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.9	12.5	mg/Kg		05/10/24 09:10	05/11/24 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				05/10/24 09:10	05/11/24 00:58	1
o-Terphenyl	125		70 - 130				05/10/24 09:10	05/11/24 00:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	704		5.03	0.397	mg/Kg			05/10/24 10:09	1

Client Sample ID: Cell 17 Sq 201-s-3-4-240508

Lab Sample ID: 880-43273-3

Date Collected: 05/08/24 11:15

Matrix: Solid

Date Received: 05/08/24 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		05/09/24 14:10	05/10/24 04:08	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		05/09/24 14:10	05/10/24 04:08	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		05/09/24 14:10	05/10/24 04:08	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		05/09/24 14:10	05/10/24 04:08	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		05/09/24 14:10	05/10/24 04:08	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		05/09/24 14:10	05/10/24 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/09/24 14:10	05/10/24 04:08	1
1,4-Difluorobenzene (Surr)	104		70 - 130				05/09/24 14:10	05/10/24 04:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			05/10/24 04:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.3		49.9	15.0	mg/Kg			05/11/24 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	39.8	J B	49.9	11.0	mg/Kg		05/10/24 09:10	05/11/24 01:37	1
Diesel Range Organics (Over C10-C28)	16.5	J B	49.9	15.0	mg/Kg		05/10/24 09:10	05/11/24 01:37	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Client Sample ID: Cell 17 Sq 201-s-3-4-240508

Lab Sample ID: 880-43273-3

Date Collected: 05/08/24 11:15

Matrix: Solid

Date Received: 05/08/24 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<12.5	U	49.9	12.5	mg/Kg	-	05/10/24 09:10	05/11/24 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/10/24 09:10	05/11/24 01:37	1
o-Terphenyl	109		70 - 130				05/10/24 09:10	05/11/24 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3		4.97	0.393	mg/Kg	-		05/10/24 10:15	1

Client Sample ID: Cell 21 Sq 126-s-3-4-240508

Lab Sample ID: 880-43273-4

Date Collected: 05/08/24 12:05

Matrix: Solid

Date Received: 05/08/24 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	-	05/09/24 14:10	05/10/24 04:29	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	-	05/09/24 14:10	05/10/24 04:29	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	-	05/09/24 14:10	05/10/24 04:29	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg	-	05/09/24 14:10	05/10/24 04:29	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	-	05/09/24 14:10	05/10/24 04:29	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg	-	05/09/24 14:10	05/10/24 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				05/09/24 14:10	05/10/24 04:29	1
1,4-Difluorobenzene (Surr)	102		70 - 130				05/09/24 14:10	05/10/24 04:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg	-		05/10/24 04:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.0	J	49.8	14.9	mg/Kg	-		05/09/24 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.4	J	49.8	10.9	mg/Kg	-	05/09/24 10:13	05/09/24 21:40	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg	-	05/09/24 10:13	05/09/24 21:40	1
Oil Range Organics (Over C28-C36)	16.6	J	49.8	12.5	mg/Kg	-	05/09/24 10:13	05/09/24 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				05/09/24 10:13	05/09/24 21:40	1
o-Terphenyl	131	S1+	70 - 130				05/09/24 10:13	05/09/24 21:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.51	J	5.02	0.397	mg/Kg	-		05/10/24 10:20	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Client Sample ID: Cell 21 Sq 120-s-3-4-240508

Lab Sample ID: 880-43273-5

Date Collected: 05/08/24 13:22

Matrix: Solid

Date Received: 05/08/24 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		05/09/24 14:10	05/10/24 04:49	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		05/09/24 14:10	05/10/24 04:49	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		05/09/24 14:10	05/10/24 04:49	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		05/09/24 14:10	05/10/24 04:49	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		05/09/24 14:10	05/10/24 04:49	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		05/09/24 14:10	05/10/24 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/09/24 14:10	05/10/24 04:49	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/09/24 14:10	05/10/24 04:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			05/10/24 04:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	31.6	J	49.8	14.9	mg/Kg			05/09/24 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.8	J	49.8	10.9	mg/Kg		05/09/24 10:13	05/09/24 22:01	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		05/09/24 10:13	05/09/24 22:01	1
Oil Range Organics (Over C28-C36)	13.8	J	49.8	12.5	mg/Kg		05/09/24 10:13	05/09/24 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/09/24 10:13	05/09/24 22:01	1
o-Terphenyl	111		70 - 130	05/09/24 10:13	05/09/24 22:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.6		4.99	0.394	mg/Kg			05/10/24 10:36	1

Client Sample ID: Cell 21 Sq 124-s-3-4-240508

Lab Sample ID: 880-43273-6

Date Collected: 05/08/24 12:55

Matrix: Solid

Date Received: 05/08/24 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/09/24 14:10	05/10/24 05:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/09/24 14:10	05/10/24 05:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/09/24 14:10	05/10/24 05:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		05/09/24 14:10	05/10/24 05:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/09/24 14:10	05/10/24 05:10	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		05/09/24 14:10	05/10/24 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/09/24 14:10	05/10/24 05:10	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/09/24 14:10	05/10/24 05:10	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Client Sample ID: Cell 21 Sq 124-s-3-4-240508

Lab Sample ID: 880-43273-6

Date Collected: 05/08/24 12:55

Matrix: Solid

Date Received: 05/08/24 16:50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg	-		05/10/24 05:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	31.6	J	50.0	15.0	mg/Kg	-		05/09/24 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	18.1	J	50.0	11.0	mg/Kg	-	05/09/24 10:13	05/09/24 22:21	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	05/09/24 10:13	05/09/24 22:21	1
Oil Range Organics (Over C28-C36)	13.5	J	50.0	12.5	mg/Kg	-	05/09/24 10:13	05/09/24 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	05/09/24 10:13	05/09/24 22:21	1
o-Terphenyl	122		70 - 130	05/09/24 10:13	05/09/24 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.397	U	5.02	0.397	mg/Kg	-		05/10/24 10:42	1

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-43273-1	Cell 17 Square 25-s-3-4-240508	107	98
880-43273-2	Cell 17 Sq 5-s-3-4-240508	109	101
880-43273-3	Cell 17 Sq 201-s-3-4-240508	105	104
880-43273-4	Cell 21 Sq 126-s-3-4-240508	104	102
880-43273-5	Cell 21 Sq 120-s-3-4-240508	105	101
880-43273-6	Cell 21 Sq 124-s-3-4-240508	100	99
LCS 880-80368/1-A	Lab Control Sample	106	101
LCSD 880-80368/2-A	Lab Control Sample Dup	115	100
MB 880-80328/5-A	Method Blank	79	95
MB 880-80368/5-A	Method Blank	79	95

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)
880-43273-1	Cell 17 Square 25-s-3-4-240508	108	123
880-43273-2	Cell 17 Sq 5-s-3-4-240508	113	125
880-43273-3	Cell 17 Sq 201-s-3-4-240508	95	109
880-43273-4	Cell 21 Sq 126-s-3-4-240508	116	131 S1+
880-43273-5	Cell 21 Sq 120-s-3-4-240508	100	111
880-43273-6	Cell 21 Sq 124-s-3-4-240508	110	122
LCS 880-80336/2-A	Lab Control Sample	92	86
LCS 880-80433/2-A	Lab Control Sample	100	92
LCSD 880-80336/3-A	Lab Control Sample Dup	105	96
LCSD 880-80433/3-A	Lab Control Sample Dup	109	104
MB 880-80336/1-A	Method Blank	103	109
MB 880-80433/1-A	Method Blank	86	97

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-80328/5-A
Matrix: Solid
Analysis Batch: 80319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/09/24 08:57	05/09/24 11:28	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/09/24 08:57	05/09/24 11:28	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/09/24 08:57	05/09/24 11:28	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		05/09/24 08:57	05/09/24 11:28	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/09/24 08:57	05/09/24 11:28	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		05/09/24 08:57	05/09/24 11:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				05/09/24 08:57	05/09/24 11:28	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/09/24 08:57	05/09/24 11:28	1

Lab Sample ID: MB 880-80368/5-A
Matrix: Solid
Analysis Batch: 80319

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/09/24 14:10	05/09/24 23:17	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/09/24 14:10	05/09/24 23:17	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/09/24 14:10	05/09/24 23:17	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		05/09/24 14:10	05/09/24 23:17	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/09/24 14:10	05/09/24 23:17	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		05/09/24 14:10	05/09/24 23:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				05/09/24 14:10	05/09/24 23:17	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/09/24 14:10	05/09/24 23:17	1

Lab Sample ID: LCS 880-80368/1-A
Matrix: Solid
Analysis Batch: 80319

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1114		mg/Kg		111	70 - 130
Toluene	0.100	0.1128		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1096		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2209		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	106		70 - 130				
1,4-Difluorobenzene (Surr)	101		70 - 130				

Lab Sample ID: LCSD 880-80368/2-A
Matrix: Solid
Analysis Batch: 80319

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80368

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1174		mg/Kg		117	70 - 130	5	35

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

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

Lab Sample ID: LCSD 880-80368/2-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 80319				Prep Batch: 80368							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1162		mg/Kg		116	70 - 130	3	35
Ethylbenzene			0.100	0.1132		mg/Kg		113	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2284		mg/Kg		114	70 - 130	3	35
o-Xylene			0.100	0.1153		mg/Kg		115	70 - 130	4	35
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)		115		70 - 130							
1,4-Difluorobenzene (Surr)		100		70 - 130							

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

Lab Sample ID: MB 880-80336/1-A						Client Sample ID: Method Blank				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 80314						Prep Batch: 80336				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<11.0	U	50.0	11.0	mg/Kg		05/09/24 10:13	05/09/24 18:15	1	
Diesel Range Organics (Over C10-C28)	21.39	J	50.0	15.0	mg/Kg		05/09/24 10:13	05/09/24 18:15	1	
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		05/09/24 10:13	05/09/24 18:15	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	103		70 - 130				05/09/24 10:13	05/09/24 18:15	1	
o-Terphenyl	109		70 - 130				05/09/24 10:13	05/09/24 18:15	1	

Lab Sample ID: LCS 880-80336/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 80314					Prep Batch: 80336				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	979.8		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	924.5		mg/Kg		92	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	92		70 - 130						
o-Terphenyl	86		70 - 130						

Lab Sample ID: LCSD 880-80336/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 80314				Prep Batch: 80336							
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Gasoline Range Organics (GRO)-C6-C10	1000	1054		mg/Kg		105	70 - 130	7	20		
Diesel Range Organics (Over C10-C28)	1000	1029		mg/Kg		103	70 - 130	11	20		

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

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

Lab Sample ID: LCSD 880-80336/3-A
Matrix: Solid
Analysis Batch: 80314

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80336

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: MB 880-80433/1-A
Matrix: Solid
Analysis Batch: 80411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80433

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	21.36	J	50.0	11.0	mg/Kg		05/10/24 09:10	05/10/24 20:30	1	
Diesel Range Organics (Over C10-C28)	17.45	J	50.0	15.0	mg/Kg		05/10/24 09:10	05/10/24 20:30	1	
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		05/10/24 09:10	05/10/24 20:30	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	86		70 - 130				05/10/24 09:10	05/10/24 20:30	1	
o-Terphenyl	97		70 - 130				05/10/24 09:10	05/10/24 20:30	1	

Lab Sample ID: LCS 880-80433/2-A
Matrix: Solid
Analysis Batch: 80411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1043		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	965.9		mg/Kg		97	70 - 130		
Surrogate		LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane		100		70 - 130					
o-Terphenyl		92		70 - 130					

Lab Sample ID: LCSD 880-80433/3-A
Matrix: Solid
Analysis Batch: 80411

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80433

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1187		mg/Kg		119	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	1058		mg/Kg		106	70 - 130	9	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		109		70 - 130					
o-Terphenyl		104		70 - 130					

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-80393/1-A
Matrix: Solid
Analysis Batch: 80425

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			05/10/24 09:31	1

Lab Sample ID: LCS 880-80393/2-A
Matrix: Solid
Analysis Batch: 80425

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-80393/3-A
Matrix: Solid
Analysis Batch: 80425

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.2		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

GC VOA

Analysis Batch: 80319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-1	Cell 17 Square 25-s-3-4-240508	Total/NA	Solid	8021B	80368
880-43273-2	Cell 17 Sq 5-s-3-4-240508	Total/NA	Solid	8021B	80368
880-43273-3	Cell 17 Sq 201-s-3-4-240508	Total/NA	Solid	8021B	80368
880-43273-4	Cell 21 Sq 126-s-3-4-240508	Total/NA	Solid	8021B	80368
880-43273-5	Cell 21 Sq 120-s-3-4-240508	Total/NA	Solid	8021B	80368
880-43273-6	Cell 21 Sq 124-s-3-4-240508	Total/NA	Solid	8021B	80368
MB 880-80328/5-A	Method Blank	Total/NA	Solid	8021B	80328
MB 880-80368/5-A	Method Blank	Total/NA	Solid	8021B	80368
LCS 880-80368/1-A	Lab Control Sample	Total/NA	Solid	8021B	80368
LCSD 880-80368/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	80368

Prep Batch: 80328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-80328/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 80368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-1	Cell 17 Square 25-s-3-4-240508	Total/NA	Solid	5035	
880-43273-2	Cell 17 Sq 5-s-3-4-240508	Total/NA	Solid	5035	
880-43273-3	Cell 17 Sq 201-s-3-4-240508	Total/NA	Solid	5035	
880-43273-4	Cell 21 Sq 126-s-3-4-240508	Total/NA	Solid	5035	
880-43273-5	Cell 21 Sq 120-s-3-4-240508	Total/NA	Solid	5035	
880-43273-6	Cell 21 Sq 124-s-3-4-240508	Total/NA	Solid	5035	
MB 880-80368/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-80368/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-80368/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 80466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-1	Cell 17 Square 25-s-3-4-240508	Total/NA	Solid	Total BTEX	
880-43273-2	Cell 17 Sq 5-s-3-4-240508	Total/NA	Solid	Total BTEX	
880-43273-3	Cell 17 Sq 201-s-3-4-240508	Total/NA	Solid	Total BTEX	
880-43273-4	Cell 21 Sq 126-s-3-4-240508	Total/NA	Solid	Total BTEX	
880-43273-5	Cell 21 Sq 120-s-3-4-240508	Total/NA	Solid	Total BTEX	
880-43273-6	Cell 21 Sq 124-s-3-4-240508	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 80314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-4	Cell 21 Sq 126-s-3-4-240508	Total/NA	Solid	8015B NM	80336
880-43273-5	Cell 21 Sq 120-s-3-4-240508	Total/NA	Solid	8015B NM	80336
880-43273-6	Cell 21 Sq 124-s-3-4-240508	Total/NA	Solid	8015B NM	80336
MB 880-80336/1-A	Method Blank	Total/NA	Solid	8015B NM	80336
LCS 880-80336/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80336
LCSD 880-80336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80336

Prep Batch: 80336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-4	Cell 21 Sq 126-s-3-4-240508	Total/NA	Solid	8015NM Prep	
880-43273-5	Cell 21 Sq 120-s-3-4-240508	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

GC Semi VOA (Continued)

Prep Batch: 80336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-6	Cell 21 Sq 124-s-3-4-240508	Total/NA	Solid	8015NM Prep	
MB 880-80336/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80336/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 80411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-1	Cell 17 Square 25-s-3-4-240508	Total/NA	Solid	8015B NM	80433
880-43273-2	Cell 17 Sq 5-s-3-4-240508	Total/NA	Solid	8015B NM	80433
880-43273-3	Cell 17 Sq 201-s-3-4-240508	Total/NA	Solid	8015B NM	80433
MB 880-80433/1-A	Method Blank	Total/NA	Solid	8015B NM	80433
LCS 880-80433/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80433
LCSD 880-80433/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80433

Prep Batch: 80433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-1	Cell 17 Square 25-s-3-4-240508	Total/NA	Solid	8015NM Prep	
880-43273-2	Cell 17 Sq 5-s-3-4-240508	Total/NA	Solid	8015NM Prep	
880-43273-3	Cell 17 Sq 201-s-3-4-240508	Total/NA	Solid	8015NM Prep	
MB 880-80433/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80433/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80433/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 80451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-1	Cell 17 Square 25-s-3-4-240508	Total/NA	Solid	8015 NM	
880-43273-2	Cell 17 Sq 5-s-3-4-240508	Total/NA	Solid	8015 NM	
880-43273-3	Cell 17 Sq 201-s-3-4-240508	Total/NA	Solid	8015 NM	
880-43273-4	Cell 21 Sq 126-s-3-4-240508	Total/NA	Solid	8015 NM	
880-43273-5	Cell 21 Sq 120-s-3-4-240508	Total/NA	Solid	8015 NM	
880-43273-6	Cell 21 Sq 124-s-3-4-240508	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 80393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-1	Cell 17 Square 25-s-3-4-240508	Soluble	Solid	DI Leach	
880-43273-2	Cell 17 Sq 5-s-3-4-240508	Soluble	Solid	DI Leach	
880-43273-3	Cell 17 Sq 201-s-3-4-240508	Soluble	Solid	DI Leach	
880-43273-4	Cell 21 Sq 126-s-3-4-240508	Soluble	Solid	DI Leach	
880-43273-5	Cell 21 Sq 120-s-3-4-240508	Soluble	Solid	DI Leach	
880-43273-6	Cell 21 Sq 124-s-3-4-240508	Soluble	Solid	DI Leach	
MB 880-80393/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-80393/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-80393/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 80425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-1	Cell 17 Square 25-s-3-4-240508	Soluble	Solid	300.0	80393
880-43273-2	Cell 17 Sq 5-s-3-4-240508	Soluble	Solid	300.0	80393
880-43273-3	Cell 17 Sq 201-s-3-4-240508	Soluble	Solid	300.0	80393

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

HPLC/IC (Continued)

Analysis Batch: 80425 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43273-4	Cell 21 Sq 126-s-3-4-240508	Soluble	Solid	300.0	80393
880-43273-5	Cell 21 Sq 120-s-3-4-240508	Soluble	Solid	300.0	80393
880-43273-6	Cell 21 Sq 124-s-3-4-240508	Soluble	Solid	300.0	80393
MB 880-80393/1-A	Method Blank	Soluble	Solid	300.0	80393
LCS 880-80393/2-A	Lab Control Sample	Soluble	Solid	300.0	80393
LCSD 880-80393/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	80393

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Client Sample ID: Cell 17 Square 25-s-3-4-240508
Date Collected: 05/08/24 10:35
Date Received: 05/08/24 16:50

Lab Sample ID: 880-43273-1
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			5.03 g	5 mL	80368	05/09/24 14:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80319	05/10/24 02:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80466	05/10/24 02:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			80451	05/11/24 00:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 00:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	80393	05/09/24 16:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80425	05/10/24 10:04	SMC	EET MID

Client Sample ID: Cell 17 Sq 5-s-3-4-240508
Date Collected: 05/08/24 10:52
Date Received: 05/08/24 16:50

Lab Sample ID: 880-43273-2
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			5.05 g	5 mL	80368	05/09/24 14:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80319	05/10/24 02:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80466	05/10/24 02:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			80451	05/11/24 00:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 00:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	80393	05/09/24 16:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80425	05/10/24 10:09	SMC	EET MID

Client Sample ID: Cell 17 Sq 201-s-3-4-240508
Date Collected: 05/08/24 11:15
Date Received: 05/08/24 16:50

Lab Sample ID: 880-43273-3
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			4.98 g	5 mL	80368	05/09/24 14:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80319	05/10/24 04:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80466	05/10/24 04:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			80451	05/11/24 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 01:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	80393	05/09/24 16:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80425	05/10/24 10:15	SMC	EET MID

Client Sample ID: Cell 21 Sq 126-s-3-4-240508
Date Collected: 05/08/24 12:05
Date Received: 05/08/24 16:50

Lab Sample ID: 880-43273-4
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			4.95 g	5 mL	80368	05/09/24 14:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80319	05/10/24 04:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80466	05/10/24 04:29	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

Client Sample ID: Cell 21 Sq 126-s-3-4-240508

Lab Sample ID: 880-43273-4

Date Collected: 05/08/24 12:05

Matrix: Solid

Date Received: 05/08/24 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			80451	05/09/24 21:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	80336	05/09/24 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80314	05/09/24 21:40	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	80393	05/09/24 16:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80425	05/10/24 10:20	SMC	EET MID

Client Sample ID: Cell 21 Sq 120-s-3-4-240508

Lab Sample ID: 880-43273-5

Date Collected: 05/08/24 13:22

Matrix: Solid

Date Received: 05/08/24 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	80368	05/09/24 14:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80319	05/10/24 04:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80466	05/10/24 04:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			80451	05/09/24 22:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	80336	05/09/24 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80314	05/09/24 22:01	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	80393	05/09/24 16:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80425	05/10/24 10:36	SMC	EET MID

Client Sample ID: Cell 21 Sq 124-s-3-4-240508

Lab Sample ID: 880-43273-6

Date Collected: 05/08/24 12:55

Matrix: Solid

Date Received: 05/08/24 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	80368	05/09/24 14:10	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80319	05/10/24 05:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80466	05/10/24 05:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			80451	05/09/24 22:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	80336	05/09/24 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80314	05/09/24 22:21	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	80393	05/09/24 16:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80425	05/10/24 10:42	SMC	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43273-1

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: Jal Landfarm

Job ID: 880-43273-1

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: Jal Landfarm

Job ID: 880-43273-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-43273-1	Cell 17 Square 25-s-3-4-240508	Solid	05/08/24 10:35	05/08/24 16:50
880-43273-2	Cell 17 Sq 5-s-3-4-240508	Solid	05/08/24 10:52	05/08/24 16:50
880-43273-3	Cell 17 Sq 201-s-3-4-240508	Solid	05/08/24 11:15	05/08/24 16:50
880-43273-4	Cell 21 Sq 126-s-3-4-240508	Solid	05/08/24 12:05	05/08/24 16:50
880-43273-5	Cell 21 Sq 120-s-3-4-240508	Solid	05/08/24 13:22	05/08/24 16:50
880-43273-6	Cell 21 Sq 124-s-3-4-240508	Solid	05/08/24 12:55	05/08/24 16:50

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Eurofins Midland

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

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-43273-1

Login Number: 43273

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
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: Ryan Nanny
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 6/18/2024 10:51:13 AM Revision 2

JOB DESCRIPTION

Jal Landfarm

JOB NUMBER

880-43330-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



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

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6/18/2024 10:51:13 AM
Revision 2

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Laboratory Job ID: 880-43330-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

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
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Jal Landfarm

Job ID: 880-43330-1

Job ID: 880-43330-1

Eurofins Midland

Job Narrative
880-43330-1

Revision

The report being provided is a revision of the original report sent on 5/15/2024. The report (revision 1) is being revised due to: Revised report to reprocess results down to the detection limit..

Receipt

The samples were received on 5/9/2024 5:21 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 was 10.0° C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: Cell21-Square98-5-3-4-240509 (880-43330-1), Cell25-Square151-5-3-4-240509 (880-43330-2), Cell25-Square184-5-3-4-240509 (880-43330-3), Cell25-Square81-5-3-4-240509 (880-43330-4), Cell26-Square41-5-3-4-240509 (880-43330-5), Cell25-Square120-5-3-4-240509 (880-43330-6), Cell26-Square175-5-3-4-240509 (880-43330-7), Cel26l-Square151-5-3-4-240509 (880-43330-8) and Cell26-Square85-5-3-4-240509 (880-43330-9).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-80445 and analytical batch 880-80420 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside the upper control limit: Cell25-Square120-5-3-4-240509 (880-43330-6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-80445 and analytical batch 880-80420 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-80420 recovered above the upper control limit for Ethylbenzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-80420/20).

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

GC Semi VOA

Method 8015B NM: The method blank for preparation batch 880-80436 and analytical batch 880-80536 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-80436 and analytical batch 880-80536 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell21-Square98-S-3-4-240509

Lab Sample ID: 880-43330-1

Date Collected: 05/09/24 09:56

Matrix: Solid

Date Received: 05/09/24 17:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		05/10/24 10:18	05/10/24 18:22	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		05/10/24 10:18	05/10/24 18:22	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		05/10/24 10:18	05/10/24 18:22	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		05/10/24 10:18	05/10/24 18:22	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		05/10/24 10:18	05/10/24 18:22	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		05/10/24 10:18	05/10/24 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	05/10/24 10:18	05/10/24 18:22	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/10/24 10:18	05/10/24 18:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			05/10/24 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.6	J	50.0	15.0	mg/Kg			05/13/24 20:03	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	24.6	J B	50.0	11.0	mg/Kg		05/10/24 09:16	05/13/24 20:03	1
Diesel Range Organics (Over C10-C28)	<15.0	U F1	50.0	15.0	mg/Kg		05/10/24 09:16	05/13/24 20:03	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		05/10/24 09:16	05/13/24 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	05/10/24 09:16	05/13/24 20:03	1
o-Terphenyl	105		70 - 130	05/10/24 09:16	05/13/24 20:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.99	0.394	mg/Kg			05/10/24 19:30	1

Client Sample ID: Cell25-Square151-S-3-4-240509

Lab Sample ID: 880-43330-2

Date Collected: 05/09/24 10:23

Matrix: Solid

Date Received: 05/09/24 17:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		05/10/24 10:18	05/10/24 18:42	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		05/10/24 10:18	05/10/24 18:42	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		05/10/24 10:18	05/10/24 18:42	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		05/10/24 10:18	05/10/24 18:42	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		05/10/24 10:18	05/10/24 18:42	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		05/10/24 10:18	05/10/24 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	05/10/24 10:18	05/10/24 18:42	1
1,4-Difluorobenzene (Surr)	108		70 - 130	05/10/24 10:18	05/10/24 18:42	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell25-Square151-S-3-4-240509

Lab Sample ID: 880-43330-2

Date Collected: 05/09/24 10:23

Matrix: Solid

Date Received: 05/09/24 17:21

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			05/10/24 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.0	J	49.8	14.9	mg/Kg			05/13/24 21:03	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	27.0	J B	49.8	10.9	mg/Kg		05/10/24 09:16	05/13/24 21:03	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		05/10/24 09:16	05/13/24 21:03	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.8	12.5	mg/Kg		05/10/24 09:16	05/13/24 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				05/10/24 09:16	05/13/24 21:03	1
o-Terphenyl	94		70 - 130				05/10/24 09:16	05/13/24 21:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.73	J	4.98	0.393	mg/Kg			05/10/24 19:35	1

Client Sample ID: Cell25-Square184-S-3-4-240509

Lab Sample ID: 880-43330-3

Date Collected: 05/09/24 10:42

Matrix: Solid

Date Received: 05/09/24 17:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/10/24 10:18	05/10/24 19:03	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/10/24 10:18	05/10/24 19:03	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/10/24 10:18	05/10/24 19:03	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		05/10/24 10:18	05/10/24 19:03	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/10/24 10:18	05/10/24 19:03	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		05/10/24 10:18	05/10/24 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				05/10/24 10:18	05/10/24 19:03	1
1,4-Difluorobenzene (Surr)	112		70 - 130				05/10/24 10:18	05/10/24 19:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			05/10/24 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.7	14.9	mg/Kg			05/13/24 21:23	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	13.3	J B	49.7	10.9	mg/Kg		05/10/24 09:16	05/13/24 21:23	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.7	14.9	mg/Kg		05/10/24 09:16	05/13/24 21:23	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell25-Square184-S-3-4-240509

Lab Sample ID: 880-43330-3

Date Collected: 05/09/24 10:42

Matrix: Solid

Date Received: 05/09/24 17:21

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)	<12.4	U	49.7	12.4	mg/Kg	-	05/10/24 09:16	05/13/24 21:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/10/24 09:16	05/13/24 21:23	1
o-Terphenyl	120		70 - 130				05/10/24 09:16	05/13/24 21:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.37		5.02	0.397	mg/Kg	-		05/10/24 19:40	1

Client Sample ID: Cell25-Square81-S-3-4-240509

Lab Sample ID: 880-43330-4

Date Collected: 05/09/24 11:20

Matrix: Solid

Date Received: 05/09/24 17:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg	-	05/10/24 10:18	05/10/24 19:23	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	-	05/10/24 10:18	05/10/24 19:23	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	-	05/10/24 10:18	05/10/24 19:23	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg	-	05/10/24 10:18	05/10/24 19:23	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg	-	05/10/24 10:18	05/10/24 19:23	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg	-	05/10/24 10:18	05/10/24 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				05/10/24 10:18	05/10/24 19:23	1
1,4-Difluorobenzene (Surr)	106		70 - 130				05/10/24 10:18	05/10/24 19:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg	-		05/10/24 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.8	J	49.8	14.9	mg/Kg	-		05/13/24 21:43	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	22.8	J B	49.8	10.9	mg/Kg	-	05/10/24 09:16	05/13/24 21:43	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg	-	05/10/24 09:16	05/13/24 21:43	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.8	12.5	mg/Kg	-	05/10/24 09:16	05/13/24 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				05/10/24 09:16	05/13/24 21:43	1
o-Terphenyl	95		70 - 130				05/10/24 09:16	05/13/24 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.81	J	4.97	0.393	mg/Kg	-		05/10/24 19:46	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell26-Square41-S-3-4-240509

Lab Sample ID: 880-43330-5

Date Collected: 05/09/24 11:40

Matrix: Solid

Date Received: 05/09/24 17:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		05/10/24 10:18	05/10/24 19:44	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/10/24 10:18	05/10/24 19:44	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/10/24 10:18	05/10/24 19:44	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		05/10/24 10:18	05/10/24 19:44	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		05/10/24 10:18	05/10/24 19:44	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		05/10/24 10:18	05/10/24 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	05/10/24 10:18	05/10/24 19:44	1
1,4-Difluorobenzene (Surr)	106		70 - 130	05/10/24 10:18	05/10/24 19:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			05/10/24 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg			05/13/24 22:04	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	13.7	J B	49.8	10.9	mg/Kg		05/10/24 09:16	05/13/24 22:04	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		05/10/24 09:16	05/13/24 22:04	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.8	12.5	mg/Kg		05/10/24 09:16	05/13/24 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/10/24 09:16	05/13/24 22:04	1
o-Terphenyl	115		70 - 130	05/10/24 09:16	05/13/24 22:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.10	J	4.99	0.394	mg/Kg			05/10/24 20:02	1

Client Sample ID: Cell25-Square120-S-3-4-240509

Lab Sample ID: 880-43330-6

Date Collected: 05/09/24 11:00

Matrix: Solid

Date Received: 05/09/24 17:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		05/10/24 10:18	05/10/24 20:04	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		05/10/24 10:18	05/10/24 20:04	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		05/10/24 10:18	05/10/24 20:04	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		05/10/24 10:18	05/10/24 20:04	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		05/10/24 10:18	05/10/24 20:04	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		05/10/24 10:18	05/10/24 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	05/10/24 10:18	05/10/24 20:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/10/24 10:18	05/10/24 20:04	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell25-Square120-S-3-4-240509

Lab Sample ID: 880-43330-6

Date Collected: 05/09/24 11:00

Matrix: Solid

Date Received: 05/09/24 17:21

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			05/10/24 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	26.3	J	49.9	15.0	mg/Kg			05/13/24 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.3	J B	49.9	10.9	mg/Kg		05/10/24 09:16	05/13/24 22:24	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		05/10/24 09:16	05/13/24 22:24	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.9	12.5	mg/Kg		05/10/24 09:16	05/13/24 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				05/10/24 09:16	05/13/24 22:24	1
o-Terphenyl	91		70 - 130				05/10/24 09:16	05/13/24 22:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	J	4.95	0.391	mg/Kg			05/10/24 20:08	1

Client Sample ID: Cell26-Square175-S-3-4-240509

Lab Sample ID: 880-43330-7

Date Collected: 05/09/24 12:05

Matrix: Solid

Date Received: 05/09/24 17:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		05/10/24 10:18	05/10/24 20:24	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/10/24 10:18	05/10/24 20:24	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/10/24 10:18	05/10/24 20:24	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		05/10/24 10:18	05/10/24 20:24	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		05/10/24 10:18	05/10/24 20:24	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		05/10/24 10:18	05/10/24 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				05/10/24 10:18	05/10/24 20:24	1
1,4-Difluorobenzene (Surr)	103		70 - 130				05/10/24 10:18	05/10/24 20:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			05/10/24 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.1	J	49.9	15.0	mg/Kg			05/13/24 22:45	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	29.1	J B	49.9	11.0	mg/Kg		05/10/24 09:16	05/13/24 22:45	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		05/10/24 09:16	05/13/24 22:45	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell26-Square175-S-3-4-240509

Lab Sample ID: 880-43330-7

Date Collected: 05/09/24 12:05

Matrix: Solid

Date Received: 05/09/24 17:21

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)	<12.5	U	49.9	12.5	mg/Kg	-	05/10/24 09:16	05/13/24 22:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/10/24 09:16	05/13/24 22:45	1
o-Terphenyl	117		70 - 130				05/10/24 09:16	05/13/24 22:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.74	J	4.98	0.393	mg/Kg	-		05/10/24 20:13	1

Client Sample ID: Cell26-Square151-S-3-4-240509

Lab Sample ID: 880-43330-8

Date Collected: 05/09/24 12:25

Matrix: Solid

Date Received: 05/09/24 17:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg	-	05/10/24 10:18	05/10/24 20:45	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg	-	05/10/24 10:18	05/10/24 20:45	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg	-	05/10/24 10:18	05/10/24 20:45	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg	-	05/10/24 10:18	05/10/24 20:45	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg	-	05/10/24 10:18	05/10/24 20:45	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg	-	05/10/24 10:18	05/10/24 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				05/10/24 10:18	05/10/24 20:45	1
1,4-Difluorobenzene (Surr)	105		70 - 130				05/10/24 10:18	05/10/24 20:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg	-		05/10/24 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.3	J	50.0	15.0	mg/Kg	-		05/13/24 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	34.0	J B	50.0	11.0	mg/Kg	-	05/10/24 09:16	05/13/24 23:05	1
Diesel Range Organics (Over C10-C28)	15.3	J	50.0	15.0	mg/Kg	-	05/10/24 09:16	05/13/24 23:05	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg	-	05/10/24 09:16	05/13/24 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				05/10/24 09:16	05/13/24 23:05	1
o-Terphenyl	98		70 - 130				05/10/24 09:16	05/13/24 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.04	J	5.02	0.397	mg/Kg	-		05/10/24 20:18	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell26-Square85-S-3-4-240509

Lab Sample ID: 880-43330-9

Date Collected: 05/09/24 12:40

Matrix: Solid

Date Received: 05/09/24 17:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	-	05/10/24 10:18	05/10/24 21:05	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	-	05/10/24 10:18	05/10/24 21:05	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	-	05/10/24 10:18	05/10/24 21:05	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg	-	05/10/24 10:18	05/10/24 21:05	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	-	05/10/24 10:18	05/10/24 21:05	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg	-	05/10/24 10:18	05/10/24 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	05/10/24 10:18	05/10/24 21:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/10/24 10:18	05/10/24 21:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg	-		05/10/24 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	35.0	J	49.8	14.9	mg/Kg	-		05/13/24 23:25	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	35.0	J B	49.8	10.9	mg/Kg	-	05/10/24 09:16	05/13/24 23:25	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg	-	05/10/24 09:16	05/13/24 23:25	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.8	12.5	mg/Kg	-	05/10/24 09:16	05/13/24 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	05/10/24 09:16	05/13/24 23:25	1
o-Terphenyl	99		70 - 130	05/10/24 09:16	05/13/24 23:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.34		4.97	0.393	mg/Kg	-		05/10/24 20:24	1

Eurofins Midland

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-43330-1	Cell21-Square98-S-3-4-240509	114	103
880-43330-2	Cell25-Square151-S-3-4-240509	118	108
880-43330-3	Cell25-Square184-S-3-4-240509	120	112
880-43330-4	Cell25-Square81-S-3-4-240509	124	106
880-43330-5	Cell26-Square41-S-3-4-240509	122	106
880-43330-6	Cell25-Square120-S-3-4-240509	131 S1+	103
880-43330-7	Cell26-Square175-S-3-4-240509	125	103
880-43330-8	Cell26-Square151-S-3-4-240509	123	105
880-43330-9	Cell26-Square85-S-3-4-240509	121	101
LCS 880-80445/1-A	Lab Control Sample	101	95
LCSD 880-80445/2-A	Lab Control Sample Dup	114	107
MB 880-80445/5-A	Method Blank	214 S1+	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 (70-130)	OTPH1 (70-130)
880-43330-1	Cell21-Square98-S-3-4-240509	93	105
880-43330-1 MS	Cell21-Square98-S-3-4-240509	78	78
880-43330-1 MSD	Cell21-Square98-S-3-4-240509	81	81
880-43330-2	Cell25-Square151-S-3-4-240509	85	94
880-43330-3	Cell25-Square184-S-3-4-240509	106	120
880-43330-4	Cell25-Square81-S-3-4-240509	86	95
880-43330-5	Cell26-Square41-S-3-4-240509	101	115
880-43330-6	Cell25-Square120-S-3-4-240509	82	91
880-43330-7	Cell26-Square175-S-3-4-240509	106	117
880-43330-8	Cell26-Square151-S-3-4-240509	88	98
880-43330-9	Cell26-Square85-S-3-4-240509	89	99
LCS 880-80436/2-A	Lab Control Sample	87	86
LCSD 880-80436/3-A	Lab Control Sample Dup	104	105
MB 880-80436/1-A	Method Blank	111	124
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-80445/5-A

Matrix: Solid

Analysis Batch: 80420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/10/24 10:18	05/10/24 12:38	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/10/24 10:18	05/10/24 12:38	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/10/24 10:18	05/10/24 12:38	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		05/10/24 10:18	05/10/24 12:38	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/10/24 10:18	05/10/24 12:38	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		05/10/24 10:18	05/10/24 12:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	214	S1+	70 - 130	05/10/24 10:18	05/10/24 12:38	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130	05/10/24 10:18	05/10/24 12:38	1

Lab Sample ID: LCS 880-80445/1-A

Matrix: Solid

Analysis Batch: 80420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09158		mg/Kg		92	70 - 130
Toluene	0.100	0.08512		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.09936		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1861		mg/Kg		93	70 - 130
o-Xylene	0.100	0.08276		mg/Kg		83	70 - 130

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

Lab Sample ID: LCSD 880-80445/2-A

Matrix: Solid

Analysis Batch: 80420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	18	35
Toluene	0.100	0.09405		mg/Kg		94	70 - 130	10	35
Ethylbenzene	0.100	0.1163		mg/Kg		116	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2266		mg/Kg		113	70 - 130	20	35
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130	21	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

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

Lab Sample ID: MB 880-80436/1-A

Matrix: Solid

Analysis Batch: 80536

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80436

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.90	J	50.0	11.0	mg/Kg		05/10/24 09:16	05/13/24 19:02	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		05/10/24 09:16	05/13/24 19:02	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		05/10/24 09:16	05/13/24 19:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				05/10/24 09:16	05/13/24 19:02	1
o-Terphenyl	124		70 - 130				05/10/24 09:16	05/13/24 19:02	1

Lab Sample ID: LCS 880-80436/2-A

Matrix: Solid

Analysis Batch: 80536

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	940.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	882.7		mg/Kg		88	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	87		70 - 130				
o-Terphenyl	86		70 - 130				

Lab Sample ID: LCSD 880-80436/3-A

Matrix: Solid

Analysis Batch: 80536

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	978.5		mg/Kg		98	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	980.4		mg/Kg		98	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: 880-43330-1 MS

Matrix: Solid

Analysis Batch: 80536

Client Sample ID: Cell21-Square98-S-3-4-240509

Prep Type: Total/NA

Prep Batch: 80436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	24.6	J B	995	998.6		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	<15.0	U F1	995	526.8	F1	mg/Kg		53	70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

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

Lab Sample ID: 880-43330-1 MS

Matrix: Solid

Analysis Batch: 80536

Client Sample ID: Cell21-Square98-S-3-4-240509

Prep Type: Total/NA

Prep Batch: 80436

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

Lab Sample ID: 880-43330-1 MSD

Matrix: Solid

Analysis Batch: 80536

Client Sample ID: Cell21-Square98-S-3-4-240509

Prep Type: Total/NA

Prep Batch: 80436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	24.6	J B	995	1030		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<15.0	U F1	995	557.8	F1	mg/Kg		56	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	81		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-80478/1-A

Matrix: Solid

Analysis Batch: 80499

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			05/10/24 18:57	1

Lab Sample ID: LCS 880-80478/2-A

Matrix: Solid

Analysis Batch: 80499

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-80478/3-A

Matrix: Solid

Analysis Batch: 80499

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.2		mg/Kg		101	90 - 110	0	20

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

GC VOA

Analysis Batch: 80420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43330-1	Cell21-Square98-S-3-4-240509	Total/NA	Solid	8021B	80445
880-43330-2	Cell25-Square151-S-3-4-240509	Total/NA	Solid	8021B	80445
880-43330-3	Cell25-Square184-S-3-4-240509	Total/NA	Solid	8021B	80445
880-43330-4	Cell25-Square81-S-3-4-240509	Total/NA	Solid	8021B	80445
880-43330-5	Cell26-Square41-S-3-4-240509	Total/NA	Solid	8021B	80445
880-43330-6	Cell25-Square120-S-3-4-240509	Total/NA	Solid	8021B	80445
880-43330-7	Cell26-Square175-S-3-4-240509	Total/NA	Solid	8021B	80445
880-43330-8	Cell26-Square151-S-3-4-240509	Total/NA	Solid	8021B	80445
880-43330-9	Cell26-Square85-S-3-4-240509	Total/NA	Solid	8021B	80445
MB 880-80445/5-A	Method Blank	Total/NA	Solid	8021B	80445
LCS 880-80445/1-A	Lab Control Sample	Total/NA	Solid	8021B	80445
LCSD 880-80445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	80445

Prep Batch: 80445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43330-1	Cell21-Square98-S-3-4-240509	Total/NA	Solid	5035	
880-43330-2	Cell25-Square151-S-3-4-240509	Total/NA	Solid	5035	
880-43330-3	Cell25-Square184-S-3-4-240509	Total/NA	Solid	5035	
880-43330-4	Cell25-Square81-S-3-4-240509	Total/NA	Solid	5035	
880-43330-5	Cell26-Square41-S-3-4-240509	Total/NA	Solid	5035	
880-43330-6	Cell25-Square120-S-3-4-240509	Total/NA	Solid	5035	
880-43330-7	Cell26-Square175-S-3-4-240509	Total/NA	Solid	5035	
880-43330-8	Cell26-Square151-S-3-4-240509	Total/NA	Solid	5035	
880-43330-9	Cell26-Square85-S-3-4-240509	Total/NA	Solid	5035	
MB 880-80445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-80445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-80445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 80707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43330-1	Cell21-Square98-S-3-4-240509	Total/NA	Solid	Total BTEX	
880-43330-2	Cell25-Square151-S-3-4-240509	Total/NA	Solid	Total BTEX	
880-43330-3	Cell25-Square184-S-3-4-240509	Total/NA	Solid	Total BTEX	
880-43330-4	Cell25-Square81-S-3-4-240509	Total/NA	Solid	Total BTEX	
880-43330-5	Cell26-Square41-S-3-4-240509	Total/NA	Solid	Total BTEX	
880-43330-6	Cell25-Square120-S-3-4-240509	Total/NA	Solid	Total BTEX	
880-43330-7	Cell26-Square175-S-3-4-240509	Total/NA	Solid	Total BTEX	
880-43330-8	Cell26-Square151-S-3-4-240509	Total/NA	Solid	Total BTEX	
880-43330-9	Cell26-Square85-S-3-4-240509	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 80436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43330-1	Cell21-Square98-S-3-4-240509	Total/NA	Solid	8015NM Prep	
880-43330-2	Cell25-Square151-S-3-4-240509	Total/NA	Solid	8015NM Prep	
880-43330-3	Cell25-Square184-S-3-4-240509	Total/NA	Solid	8015NM Prep	
880-43330-4	Cell25-Square81-S-3-4-240509	Total/NA	Solid	8015NM Prep	
880-43330-5	Cell26-Square41-S-3-4-240509	Total/NA	Solid	8015NM Prep	
880-43330-6	Cell25-Square120-S-3-4-240509	Total/NA	Solid	8015NM Prep	
880-43330-7	Cell26-Square175-S-3-4-240509	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

GC Semi VOA (Continued)

Prep Batch: 80436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43330-8	Cell26-Square151-S-3-4-240509	Total/NA	Solid	8015NM Prep	
880-43330-9	Cell26-Square85-S-3-4-240509	Total/NA	Solid	8015NM Prep	
MB 880-80436/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80436/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-43330-1 MS	Cell21-Square98-S-3-4-240509	Total/NA	Solid	8015NM Prep	
880-43330-1 MSD	Cell21-Square98-S-3-4-240509	Total/NA	Solid	8015NM Prep	

Analysis Batch: 80536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43330-1	Cell21-Square98-S-3-4-240509	Total/NA	Solid	8015B NM	80436
880-43330-2	Cell25-Square151-S-3-4-240509	Total/NA	Solid	8015B NM	80436
880-43330-3	Cell25-Square184-S-3-4-240509	Total/NA	Solid	8015B NM	80436
880-43330-4	Cell25-Square81-S-3-4-240509	Total/NA	Solid	8015B NM	80436
880-43330-5	Cell26-Square41-S-3-4-240509	Total/NA	Solid	8015B NM	80436
880-43330-6	Cell25-Square120-S-3-4-240509	Total/NA	Solid	8015B NM	80436
880-43330-7	Cell26-Square175-S-3-4-240509	Total/NA	Solid	8015B NM	80436
880-43330-8	Cell26-Square151-S-3-4-240509	Total/NA	Solid	8015B NM	80436
880-43330-9	Cell26-Square85-S-3-4-240509	Total/NA	Solid	8015B NM	80436
MB 880-80436/1-A	Method Blank	Total/NA	Solid	8015B NM	80436
LCS 880-80436/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80436
LCSD 880-80436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80436
880-43330-1 MS	Cell21-Square98-S-3-4-240509	Total/NA	Solid	8015B NM	80436
880-43330-1 MSD	Cell21-Square98-S-3-4-240509	Total/NA	Solid	8015B NM	80436

Analysis Batch: 80725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43330-1	Cell21-Square98-S-3-4-240509	Total/NA	Solid	8015 NM	
880-43330-2	Cell25-Square151-S-3-4-240509	Total/NA	Solid	8015 NM	
880-43330-3	Cell25-Square184-S-3-4-240509	Total/NA	Solid	8015 NM	
880-43330-4	Cell25-Square81-S-3-4-240509	Total/NA	Solid	8015 NM	
880-43330-5	Cell26-Square41-S-3-4-240509	Total/NA	Solid	8015 NM	
880-43330-6	Cell25-Square120-S-3-4-240509	Total/NA	Solid	8015 NM	
880-43330-7	Cell26-Square175-S-3-4-240509	Total/NA	Solid	8015 NM	
880-43330-8	Cell26-Square151-S-3-4-240509	Total/NA	Solid	8015 NM	
880-43330-9	Cell26-Square85-S-3-4-240509	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 80478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43330-1	Cell21-Square98-S-3-4-240509	Soluble	Solid	DI Leach	
880-43330-2	Cell25-Square151-S-3-4-240509	Soluble	Solid	DI Leach	
880-43330-3	Cell25-Square184-S-3-4-240509	Soluble	Solid	DI Leach	
880-43330-4	Cell25-Square81-S-3-4-240509	Soluble	Solid	DI Leach	
880-43330-5	Cell26-Square41-S-3-4-240509	Soluble	Solid	DI Leach	
880-43330-6	Cell25-Square120-S-3-4-240509	Soluble	Solid	DI Leach	
880-43330-7	Cell26-Square175-S-3-4-240509	Soluble	Solid	DI Leach	
880-43330-8	Cell26-Square151-S-3-4-240509	Soluble	Solid	DI Leach	
880-43330-9	Cell26-Square85-S-3-4-240509	Soluble	Solid	DI Leach	
MB 880-80478/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

HPLC/IC (Continued)

Leach Batch: 80478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-80478/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-80478/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 80499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43330-1	Cell21-Square98-S-3-4-240509	Soluble	Solid	300.0	80478
880-43330-2	Cell25-Square151-S-3-4-240509	Soluble	Solid	300.0	80478
880-43330-3	Cell25-Square184-S-3-4-240509	Soluble	Solid	300.0	80478
880-43330-4	Cell25-Square81-S-3-4-240509	Soluble	Solid	300.0	80478
880-43330-5	Cell26-Square41-S-3-4-240509	Soluble	Solid	300.0	80478
880-43330-6	Cell25-Square120-S-3-4-240509	Soluble	Solid	300.0	80478
880-43330-7	Cell26-Square175-S-3-4-240509	Soluble	Solid	300.0	80478
880-43330-8	Cell26-Square151-S-3-4-240509	Soluble	Solid	300.0	80478
880-43330-9	Cell26-Square85-S-3-4-240509	Soluble	Solid	300.0	80478
MB 880-80478/1-A	Method Blank	Soluble	Solid	300.0	80478
LCS 880-80478/2-A	Lab Control Sample	Soluble	Solid	300.0	80478
LCSD 880-80478/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	80478

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell21-Square98-S-3-4-240509
Date Collected: 05/09/24 09:56
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	80445	05/10/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80420	05/10/24 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80707	05/10/24 18:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			80725	05/13/24 20:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	80436	05/10/24 09:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80536	05/13/24 20:03	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 19:30	SMC	EET MID

Client Sample ID: Cell25-Square151-S-3-4-240509
Date Collected: 05/09/24 10:23
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-2
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			4.97 g	5 mL	80445	05/10/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80420	05/10/24 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80707	05/10/24 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			80725	05/13/24 21:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	80436	05/10/24 09:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80536	05/13/24 21:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 19:35	SMC	EET MID

Client Sample ID: Cell25-Square184-S-3-4-240509
Date Collected: 05/09/24 10:42
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-3
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	80445	05/10/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80420	05/10/24 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80707	05/10/24 19:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			80725	05/13/24 21:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	80436	05/10/24 09:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80536	05/13/24 21:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 19:40	SMC	EET MID

Client Sample ID: Cell25-Square81-S-3-4-240509
Date Collected: 05/09/24 11:20
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-4
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			5.00 g	5 mL	80445	05/10/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80420	05/10/24 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80707	05/10/24 19:23	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell25-Square81-S-3-4-240509
Date Collected: 05/09/24 11:20
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-4
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			80725	05/13/24 21:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	80436	05/10/24 09:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80536	05/13/24 21:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 19:46	SMC	EET MID

Client Sample ID: Cell26-Square41-S-3-4-240509
Date Collected: 05/09/24 11:40
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-5
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			5.02 g	5 mL	80445	05/10/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80420	05/10/24 19:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80707	05/10/24 19:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			80725	05/13/24 22:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	80436	05/10/24 09:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80536	05/13/24 22:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 20:02	SMC	EET MID

Client Sample ID: Cell25-Square120-S-3-4-240509
Date Collected: 05/09/24 11:00
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-6
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			4.98 g	5 mL	80445	05/10/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80420	05/10/24 20:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80707	05/10/24 20:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			80725	05/13/24 22:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	80436	05/10/24 09:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80536	05/13/24 22:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 20:08	SMC	EET MID

Client Sample ID: Cell26-Square175-S-3-4-240509
Date Collected: 05/09/24 12:05
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-7
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	80445	05/10/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80420	05/10/24 20:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80707	05/10/24 20:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			80725	05/13/24 22:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	80436	05/10/24 09:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80536	05/13/24 22:45	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

Client Sample ID: Cell26-Square175-S-3-4-240509
Date Collected: 05/09/24 12:05
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-7
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	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 20:13	SMC	EET MID

Client Sample ID: Cell26-Square151-S-3-4-240509
Date Collected: 05/09/24 12:25
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-8
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			5.04 g	5 mL	80445	05/10/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80420	05/10/24 20:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80707	05/10/24 20:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			80725	05/13/24 23:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	80436	05/10/24 09:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80536	05/13/24 23:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 20:18	SMC	EET MID

Client Sample ID: Cell26-Square85-S-3-4-240509
Date Collected: 05/09/24 12:40
Date Received: 05/09/24 17:21

Lab Sample ID: 880-43330-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	80445	05/10/24 10:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80420	05/10/24 21:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80707	05/10/24 21:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			80725	05/13/24 23:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	80436	05/10/24 09:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80536	05/13/24 23:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 20:24	SMC	EET MID

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43330-1

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: Jal Landfarm

Job ID: 880-43330-1

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: Jal Landfarm

Job ID: 880-43330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-43330-1	Cell21-Square98-S-3-4-240509	Solid	05/09/24 09:56	05/09/24 17:21
880-43330-2	Cell25-Square151-S-3-4-240509	Solid	05/09/24 10:23	05/09/24 17:21
880-43330-3	Cell25-Square184-S-3-4-240509	Solid	05/09/24 10:42	05/09/24 17:21
880-43330-4	Cell25-Square81-S-3-4-240509	Solid	05/09/24 11:20	05/09/24 17:21
880-43330-5	Cell26-Square41-S-3-4-240509	Solid	05/09/24 11:40	05/09/24 17:21
880-43330-6	Cell25-Square120-S-3-4-240509	Solid	05/09/24 11:00	05/09/24 17:21
880-43330-7	Cell26-Square175-S-3-4-240509	Solid	05/09/24 12:05	05/09/24 17:21
880-43330-8	Cell26-Square151-S-3-4-240509	Solid	05/09/24 12:25	05/09/24 17:21
880-43330-9	Cell26-Square85-S-3-4-240509	Solid	05/09/24 12:40	05/09/24 17:21

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Chain of Custody Record



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

Client Information		Sampler: <u>Michael Rodriguez</u>		Lab PM: <u>Builes, John</u>		Carrier Tracking No(s):		COC No: <u>880-9410-1319-1</u>	
Client Contact: <u>Ryan Nanny</u>		Phone: <u>432-944-3726</u>		E-Mail: <u>John.Builes@et.eurofins.com</u>		State of Origin: <u>NM</u>		Page: <u>Page 1 of 1</u>	
Company: <u>Arcadis U.S. Inc</u>		PWSID:		Analysis Requested		Job #		Preservation Codes: <u>N - None</u>	
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested		TAT Requested (days): <u>Standby</u>		Compliance Project: ☐ Yes ☒ No		PO #: <u>30217704</u>	
City: <u>Midland</u>		State Zip: <u>TX 79701</u>		Project #: <u>88002142</u>		SSOW#:		Other:	
Email: <u>Ryan.Nanny@arcadis.com</u>		Project Name: <u>Jail Landlam</u>		Sample Identification		Sample Date		Sample Time	
Sample Type (G=Comp, G=grab, A=Air)		Sample Type (W=Water, S=Soil, O=Organic, B=Bitumen, A=Air)		Field Filtered Sample (Yes or No)		Total Number of containers		Special Instructions/Note: <u>43330</u>	
Cell 21 - Square 98-S-3-4-240509		5-9-24		956		6		Solid	
Cell 25 - Square 151-S-3-4-240509		1023		1042		1120		Solid	
Cell 25 - Square 81-S-3-4-240509		1120		1150		1205		Solid	
Cell 26 - Square 41-S-3-4-240509		1225		1240		Solid		Solid	
Cell 25 - Square 120-S-3-4-240509		1150		1205		1225		Solid	
Cell 26 - Square 175-S-3-4-240509		1225		1240		Solid		Solid	
Cell 26 - Square 85-S-3-4-240509		1240		Solid		Solid		Solid	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>			
Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/QC Requirements		Method of Shipment:		Date/Time		Company	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>6/9/24 / 1720</u>		Company: <u>Arcadis</u>		Received by: <u>[Signature]</u>		Date/Time: <u>5/9/24</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>6/9/24 / 1720</u>		Company: <u>Arcadis</u>		Received by: <u>[Signature]</u>		Date/Time: <u>5/9/24</u>	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>10.1°C on ice</u>		Date/Time: <u>5/9/24</u>		Company: <u>Arcadis</u>	



Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-43330-1

Login Number: 43330

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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- 3
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- 12
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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/18/2024 10:50:12 AM Revision 2

JOB DESCRIPTION

Jal Landfarm

JOB NUMBER

880-43332-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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

Generated
6/18/2024 10:50:12 AM
Revision 2

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Laboratory Job ID: 880-43332-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Jal Landfarm

Job ID: 880-43332-1

Job ID: 880-43332-1

Eurofins Midland

Job Narrative 880-43332-1

Revision

The report being provided is a revision of the original report sent on 5/13/2024. The report (revision 1) is being revised due to: sample ID corrected..

Receipt

The samples were received on 5/9/2024 5:22 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 was 3.5° C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: Cell17-Treatment-5-6-240509 (880-43332-1), Cell18-Treatment-5-6-240509 (880-43332-2), Cell19-Treatment-5-6-240509 (880-43332-3), Cell20-Treatment-5-6-240509 (880-43332-4), Cell21-Treatment-5-6-240509 (880-43332-5), Cell25-Treatment-5-6-240509 (880-43332-6) and Cell26-Treatment-5-6-240509 (880-43332-7).

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-80433 and analytical batch 880-80411 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.

Samples were originally reported to the Reporting Limit. There were detections in the blank but they were significantly below the Reporting limit so the samples were not re-run since the results were below the RL. When the results were revised to be reported down to the Detection Limit the detections in the blank are now affecting the results, but the samples are past the recommended hold time to be re-run.

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

General Chemistry

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

Organic Prep

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

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Client Sample ID: Cell17-Treatment-S-6-240509

Lab Sample ID: 880-43332-1

Date Collected: 05/09/24 10:20

Matrix: Solid

Date Received: 05/09/24 17:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	104		50.0	15.0	mg/Kg			05/11/24 04:28	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	45.6	J B	50.0	11.0	mg/Kg		05/10/24 09:10	05/11/24 04:28	1
Diesel Range Organics (Over C10-C28)	42.3	J B	50.0	15.0	mg/Kg		05/10/24 09:10	05/11/24 04:28	1
Oil Range Organics (Over C28-C36)	16.4	J	50.0	12.5	mg/Kg		05/10/24 09:10	05/11/24 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				05/10/24 09:10	05/11/24 04:28	1
o-Terphenyl	129		70 - 130				05/10/24 09:10	05/11/24 04:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.89	J	5.03	0.397	mg/Kg			05/10/24 20:29	1

Client Sample ID: Cell18-Treatment-S-6-240509

Lab Sample ID: 880-43332-2

Date Collected: 05/09/24 11:20

Matrix: Solid

Date Received: 05/09/24 17:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	134		49.8	14.9	mg/Kg			05/11/24 03:51	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	42.6	J B	49.8	10.9	mg/Kg		05/10/24 09:10	05/11/24 03:51	1
Diesel Range Organics (Over C10-C28)	61.4	B	49.8	14.9	mg/Kg		05/10/24 09:10	05/11/24 03:51	1
Oil Range Organics (Over C28-C36)	29.7	J	49.8	12.5	mg/Kg		05/10/24 09:10	05/11/24 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				05/10/24 09:10	05/11/24 03:51	1
o-Terphenyl	127		70 - 130				05/10/24 09:10	05/11/24 03:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.85		4.99	0.394	mg/Kg			05/10/24 20:46	1

Client Sample ID: Cell19-Treatment-S-6-240509

Lab Sample ID: 880-43332-3

Date Collected: 05/09/24 11:45

Matrix: Solid

Date Received: 05/09/24 17:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	124		49.8	14.9	mg/Kg			05/11/24 02:34	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Client Sample ID: Cell19-Treatment-S-6-240509

Lab Sample ID: 880-43332-3

Date Collected: 05/09/24 11:45

Matrix: Solid

Date Received: 05/09/24 17:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.4	J B	49.8	10.9	mg/Kg		05/10/24 09:10	05/11/24 02:34	1
Diesel Range Organics (Over C10-C28)	59.8	B	49.8	14.9	mg/Kg		05/10/24 09:10	05/11/24 02:34	1
Oil Range Organics (Over C28-C36)	28.1	J	49.8	12.5	mg/Kg		05/10/24 09:10	05/11/24 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				05/10/24 09:10	05/11/24 02:34	1
o-Terphenyl	99		70 - 130				05/10/24 09:10	05/11/24 02:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.21		4.98	0.393	mg/Kg			05/10/24 20:51	1

Client Sample ID: Cell20-Treatment-S-6-240509

Lab Sample ID: 880-43332-4

Date Collected: 05/09/24 12:25

Matrix: Solid

Date Received: 05/09/24 17:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.6		49.7	14.9	mg/Kg			05/11/24 04:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.2	J B	49.7	10.9	mg/Kg		05/10/24 09:10	05/11/24 04:10	1
Diesel Range Organics (Over C10-C28)	34.5	J B	49.7	14.9	mg/Kg		05/10/24 09:10	05/11/24 04:10	1
Oil Range Organics (Over C28-C36)	12.9	J	49.7	12.4	mg/Kg		05/10/24 09:10	05/11/24 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				05/10/24 09:10	05/11/24 04:10	1
o-Terphenyl	124		70 - 130				05/10/24 09:10	05/11/24 04:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.5		5.02	0.397	mg/Kg			05/10/24 21:07	1

Client Sample ID: Cell21-Treatment-S-6-240509

Lab Sample ID: 880-43332-5

Date Collected: 05/09/24 12:45

Matrix: Solid

Date Received: 05/09/24 17:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	136		49.8	14.9	mg/Kg			05/11/24 02:53	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	35.8	J B	49.8	10.9	mg/Kg		05/10/24 09:10	05/11/24 02:53	1
Diesel Range Organics (Over C10-C28)	67.4	B	49.8	14.9	mg/Kg		05/10/24 09:10	05/11/24 02:53	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Client Sample ID: Cell21-Treatment-S-6-240509

Lab Sample ID: 880-43332-5

Date Collected: 05/09/24 12:45

Matrix: Solid

Date Received: 05/09/24 17:22

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)	33.0	J	49.8	12.5	mg/Kg		05/10/24 09:10	05/11/24 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				05/10/24 09:10	05/11/24 02:53	1
o-Terphenyl	87		70 - 130				05/10/24 09:10	05/11/24 02:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		4.95	0.391	mg/Kg			05/10/24 21:13	1

Client Sample ID: Cell25-Treatment-S-6-240509

Lab Sample ID: 880-43332-6

Date Collected: 05/09/24 13:10

Matrix: Solid

Date Received: 05/09/24 17:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	109		49.8	14.9	mg/Kg			05/11/24 03:12	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	43.1	J B	49.8	10.9	mg/Kg		05/10/24 09:10	05/11/24 03:12	1
Diesel Range Organics (Over C10-C28)	45.0	J B	49.8	14.9	mg/Kg		05/10/24 09:10	05/11/24 03:12	1
Oil Range Organics (Over C28-C36)	20.6	J	49.8	12.5	mg/Kg		05/10/24 09:10	05/11/24 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/10/24 09:10	05/11/24 03:12	1
o-Terphenyl	113		70 - 130				05/10/24 09:10	05/11/24 03:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.82	J	4.96	0.392	mg/Kg			05/10/24 21:18	1

Client Sample ID: Cell26-Treatment-S-6-240509

Lab Sample ID: 880-43332-7

Date Collected: 05/09/24 13:20

Matrix: Solid

Date Received: 05/09/24 17:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	129		49.6	14.9	mg/Kg			05/11/24 03:32	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	35.7	J B	49.6	10.9	mg/Kg		05/10/24 09:10	05/11/24 03:32	1
Diesel Range Organics (Over C10-C28)	63.5	B	49.6	14.9	mg/Kg		05/10/24 09:10	05/11/24 03:32	1
Oil Range Organics (Over C28-C36)	29.9	J	49.6	12.4	mg/Kg		05/10/24 09:10	05/11/24 03:32	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Client Sample ID: Cell26-Treatment-S-6-240509 Lab Sample ID: 880-43332-7
Date Collected: 05/09/24 13:20 Matrix: Solid
Date Received: 05/09/24 17:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/10/24 09:10	05/11/24 03:32	1
o-Terphenyl	110		70 - 130	05/10/24 09:10	05/11/24 03:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.46		4.95	0.391	mg/Kg			05/10/24 21:23	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

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)
880-43332-1	Cell17-Treatment-S-6-240509	123	129
880-43332-2	Cell18-Treatment-S-6-240509	122	127
880-43332-3	Cell19-Treatment-S-6-240509	96	99
880-43332-4	Cell20-Treatment-S-6-240509	117	124
880-43332-5	Cell21-Treatment-S-6-240509	87	87
880-43332-6	Cell25-Treatment-S-6-240509	107	113
880-43332-7	Cell26-Treatment-S-6-240509	106	110
LCS 880-80433/2-A	Lab Control Sample	100	92
LCSD 880-80433/3-A	Lab Control Sample Dup	109	104
MB 880-80433/1-A	Method Blank	86	97
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

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

Lab Sample ID: MB 880-80433/1-A

Matrix: Solid

Analysis Batch: 80411

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.36	J	50.0	11.0	mg/Kg		05/10/24 09:10	05/10/24 20:30	1
Diesel Range Organics (Over C10-C28)	17.45	J	50.0	15.0	mg/Kg		05/10/24 09:10	05/10/24 20:30	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		05/10/24 09:10	05/10/24 20:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	05/10/24 09:10	05/10/24 20:30	1
o-Terphenyl	97		70 - 130	05/10/24 09:10	05/10/24 20:30	1

Lab Sample ID: LCS 880-80433/2-A

Matrix: Solid

Analysis Batch: 80411

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1043		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	965.9		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-80433/3-A

Matrix: Solid

Analysis Batch: 80411

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80433

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1187		mg/Kg		119	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	1058		mg/Kg		106	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	104		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-80478/1-A

Matrix: Solid

Analysis Batch: 80499

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			05/10/24 18:57	1

Eurofins Midland

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-80478/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 80499											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.8		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-80478/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 80499											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.2		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-43332-1 MS				Client Sample ID: Cell17-Treatment-S-6-240509							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 80499											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4.89	J	252	258.6		mg/Kg		101	90 - 110		

Lab Sample ID: 880-43332-1 MSD				Client Sample ID: Cell17-Treatment-S-6-240509							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 80499											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.89	J	252	258.5		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

GC Semi VOA

Analysis Batch: 80411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43332-1	Cell17-Treatment-S-6-240509	Total/NA	Solid	8015B NM	80433
880-43332-2	Cell18-Treatment-S-6-240509	Total/NA	Solid	8015B NM	80433
880-43332-3	Cell19-Treatment-S-6-240509	Total/NA	Solid	8015B NM	80433
880-43332-4	Cell20-Treatment-S-6-240509	Total/NA	Solid	8015B NM	80433
880-43332-5	Cell21-Treatment-S-6-240509	Total/NA	Solid	8015B NM	80433
880-43332-6	Cell25-Treatment-S-6-240509	Total/NA	Solid	8015B NM	80433
880-43332-7	Cell26-Treatment-S-6-240509	Total/NA	Solid	8015B NM	80433
MB 880-80433/1-A	Method Blank	Total/NA	Solid	8015B NM	80433
LCS 880-80433/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80433
LCSD 880-80433/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80433

Prep Batch: 80433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43332-1	Cell17-Treatment-S-6-240509	Total/NA	Solid	8015NM Prep	
880-43332-2	Cell18-Treatment-S-6-240509	Total/NA	Solid	8015NM Prep	
880-43332-3	Cell19-Treatment-S-6-240509	Total/NA	Solid	8015NM Prep	
880-43332-4	Cell20-Treatment-S-6-240509	Total/NA	Solid	8015NM Prep	
880-43332-5	Cell21-Treatment-S-6-240509	Total/NA	Solid	8015NM Prep	
880-43332-6	Cell25-Treatment-S-6-240509	Total/NA	Solid	8015NM Prep	
880-43332-7	Cell26-Treatment-S-6-240509	Total/NA	Solid	8015NM Prep	
MB 880-80433/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80433/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80433/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 80575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43332-1	Cell17-Treatment-S-6-240509	Total/NA	Solid	8015 NM	
880-43332-2	Cell18-Treatment-S-6-240509	Total/NA	Solid	8015 NM	
880-43332-3	Cell19-Treatment-S-6-240509	Total/NA	Solid	8015 NM	
880-43332-4	Cell20-Treatment-S-6-240509	Total/NA	Solid	8015 NM	
880-43332-5	Cell21-Treatment-S-6-240509	Total/NA	Solid	8015 NM	
880-43332-6	Cell25-Treatment-S-6-240509	Total/NA	Solid	8015 NM	
880-43332-7	Cell26-Treatment-S-6-240509	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 80478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43332-1	Cell17-Treatment-S-6-240509	Soluble	Solid	DI Leach	
880-43332-2	Cell18-Treatment-S-6-240509	Soluble	Solid	DI Leach	
880-43332-3	Cell19-Treatment-S-6-240509	Soluble	Solid	DI Leach	
880-43332-4	Cell20-Treatment-S-6-240509	Soluble	Solid	DI Leach	
880-43332-5	Cell21-Treatment-S-6-240509	Soluble	Solid	DI Leach	
880-43332-6	Cell25-Treatment-S-6-240509	Soluble	Solid	DI Leach	
880-43332-7	Cell26-Treatment-S-6-240509	Soluble	Solid	DI Leach	
MB 880-80478/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-80478/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-80478/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-43332-1 MS	Cell17-Treatment-S-6-240509	Soluble	Solid	DI Leach	
880-43332-1 MSD	Cell17-Treatment-S-6-240509	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

HPLC/IC

Analysis Batch: 80499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43332-1	Cell17-Treatment-S-6-240509	Soluble	Solid	300.0	80478
880-43332-2	Cell18-Treatment-S-6-240509	Soluble	Solid	300.0	80478
880-43332-3	Cell19-Treatment-S-6-240509	Soluble	Solid	300.0	80478
880-43332-4	Cell20-Treatment-S-6-240509	Soluble	Solid	300.0	80478
880-43332-5	Cell21-Treatment-S-6-240509	Soluble	Solid	300.0	80478
880-43332-6	Cell25-Treatment-S-6-240509	Soluble	Solid	300.0	80478
880-43332-7	Cell26-Treatment-S-6-240509	Soluble	Solid	300.0	80478
MB 880-80478/1-A	Method Blank	Soluble	Solid	300.0	80478
LCS 880-80478/2-A	Lab Control Sample	Soluble	Solid	300.0	80478
LCSD 880-80478/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	80478
880-43332-1 MS	Cell17-Treatment-S-6-240509	Soluble	Solid	300.0	80478
880-43332-1 MSD	Cell17-Treatment-S-6-240509	Soluble	Solid	300.0	80478

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Client Sample ID: Cell17-Treatment-S-6-240509

Lab Sample ID: 880-43332-1

Date Collected: 05/09/24 10:20

Matrix: Solid

Date Received: 05/09/24 17:22

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			80575	05/11/24 04:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 04:28	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 20:29	SMC	EET MID

Client Sample ID: Cell18-Treatment-S-6-240509

Lab Sample ID: 880-43332-2

Date Collected: 05/09/24 11:20

Matrix: Solid

Date Received: 05/09/24 17:22

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			80575	05/11/24 03:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 03:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 20:46	SMC	EET MID

Client Sample ID: Cell19-Treatment-S-6-240509

Lab Sample ID: 880-43332-3

Date Collected: 05/09/24 11:45

Matrix: Solid

Date Received: 05/09/24 17:22

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			80575	05/11/24 02:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 02:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 20:51	SMC	EET MID

Client Sample ID: Cell20-Treatment-S-6-240509

Lab Sample ID: 880-43332-4

Date Collected: 05/09/24 12:25

Matrix: Solid

Date Received: 05/09/24 17:22

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			80575	05/11/24 04:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 04:10	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 21:07	SMC	EET MID

Client Sample ID: Cell21-Treatment-S-6-240509

Lab Sample ID: 880-43332-5

Date Collected: 05/09/24 12:45

Matrix: Solid

Date Received: 05/09/24 17:22

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			80575	05/11/24 02:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Client Sample ID: Cell21-Treatment-S-6-240509
Date Collected: 05/09/24 12:45
Date Received: 05/09/24 17:22

Lab Sample ID: 880-43332-5
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	8015NM Prep			10.04 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 02:53	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 21:13	SMC	EET MID

Client Sample ID: Cell25-Treatment-S-6-240509
Date Collected: 05/09/24 13:10
Date Received: 05/09/24 17:22

Lab Sample ID: 880-43332-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80575	05/11/24 03:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 03:12	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 21:18	SMC	EET MID

Client Sample ID: Cell26-Treatment-S-6-240509
Date Collected: 05/09/24 13:20
Date Received: 05/09/24 17:22

Lab Sample ID: 880-43332-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80575	05/11/24 03:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	80433	05/10/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80411	05/11/24 03:32	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	80478	05/10/24 14:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80499	05/10/24 21:23	SMC	EET MID

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Jal Landfarm

Job ID: 880-43332-1

Method	Method Description	Protocol	Laboratory
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
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: Jal Landfarm

Job ID: 880-43332-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-43332-1	Cell17-Treatment-S-6-240509	Solid	05/09/24 10:20	05/09/24 17:22
880-43332-2	Cell18-Treatment-S-6-240509	Solid	05/09/24 11:20	05/09/24 17:22
880-43332-3	Cell19-Treatment-S-6-240509	Solid	05/09/24 11:45	05/09/24 17:22
880-43332-4	Cell20-Treatment-S-6-240509	Solid	05/09/24 12:25	05/09/24 17:22
880-43332-5	Cell21-Treatment-S-6-240509	Solid	05/09/24 12:45	05/09/24 17:22
880-43332-6	Cell25-Treatment-S-6-240509	Solid	05/09/24 13:10	05/09/24 17:22
880-43332-7	Cell26-Treatment-S-6-240509	Solid	05/09/24 13:20	05/09/24 17:22



Eurofins Midland

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

Chain of Custody Record



Environmental Testing

Client Information		Sampler: <u>Michael Rodriguez</u>		Lab PM: <u>Builes, John</u>	Carrier Tracking No(s): <u>880-9410-1319.1</u>	COC No: <u>880-9410-1319.1</u>						
Client Contact: <u>Ryan Nanny</u>		Phone: <u>432-994-3725</u>		E-Mail: <u>John.Builes@eurofins.com</u>	State of Origin: <u>NA</u>	Page: <u>Page 1 of 1</u>						
Company: <u>Arcadis U.S. Inc</u>		PWSID: <u></u>		Job #: <u></u>								
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested: <u></u>										
City: <u>Midland</u>		TAT Requested (days): <u>Standard</u>										
State Zip: <u>TX, 79701</u>		Compliance Project: <u>Δ Yes Δ No</u>										
Phone: <u>432-684-5400(Tel) 432-687-5401(Fax)</u>		FO #: <u>30217704</u>										
Email: <u>ryan.nanny@arcadis.com</u>		WO #: <u></u>										
Project Name: <u>Jal Landfarm</u>		Project #: <u>88002142</u>										
Site: <u></u>		SSOW #: <u></u>										
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/eff, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	300_ORGM_28D, 8015MOD_NM, 8021B	525010 TPH	Analysis Requested	Preservation Codes N=None	Other	Total Number of Containers	Special Instructions/Note
Cell 17 - Treatment - S-6-240509	5/9/24	1020	G	Solid								43332 Special Instructions/Note.
Cell 18 - Treatment - S-6-240509		1120		Solid								
Cell 19 - Treatment - S-6-240509		1145		Solid								
Cell 20 - Treatment - S-6-240509		1225		Solid								
Cell 21 - Treatment - S-6-240509		1245		Solid								
Cell 25 - Treatment - S-6-240509		1310		Solid								
Cell 26 - Treatment - S-6-240509		1320	↓	Solid								
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested 1, II, III, IV Other (specify) <u></u>												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo. ...) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>												
Special Instructions/QC Requirements Empty Kit Relinquished by <u></u> Date <u></u> Method of Shipment: <u></u>												
Relinquished by <u></u> Date/Time <u>5/9/24 / 1720</u> Company <u>Arcadis</u> Relinquished by <u></u> Date/Time <u></u> Company <u></u> Relinquished by <u></u> Date/Time <u></u> Company <u></u>												
Custody Seals Intact. <u>Δ Yes Δ No</u> Custody Seal No.: <u></u> Cooler Temperature(s) °C and Other Remarks: <u>3.6 °C on ice</u>												

880-43332 Chain of Custody



Ver 01/6/2019

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-43332-1

Login Number: 43332

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

Appendix B

July 2024 Laboratory Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 8/16/2024 6:31:37 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-78355-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477



Eurofins Houston

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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8/16/2024 6:31:37 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-78355-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

LCMS

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Job ID: 860-78355-1

Eurofins Houston

Job Narrative 860-78355-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 7/17/2024 9:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.3°C and 4.5°C.

Receipt Exceptions

An Internal Chain-of-Custody (COC) was not received with these samples in Denver on 07-27-24. Cell17-Square 64-S-3-4-240716 (860-78355-1), Cell17-Square 44-S-3-4-240716 (860-78355-2), Cell17-Square 24-S-3-4-240716 (860-78355-3) and Cell17-Square 4-S-3-4-240716 (860-78355-4).

GC/MS VOA

Method 8260D_SIM: Sample is in a bulk jar.

Cell17-Square 64-S-3-4-240716 (860-78355-1), Cell17-Square 44-S-3-4-240716 (860-78355-2), Cell17-Square 24-S-3-4-240716 (860-78355-3) and Cell17-Square 4-S-3-4-240716 (860-78355-4)

Method 8260D_SIM: The matrix spike (MS) recoveries for preparation batch 860-176998 and analytical batch 860-177046 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: Sample is in a bulk jar.

Cell17-Square 64-S-3-4-240716 (860-78355-1), Cell17-Square 44-S-3-4-240716 (860-78355-2), Cell17-Square 24-S-3-4-240716 (860-78355-3) and Cell17-Square 4-S-3-4-240716 (860-78355-4)

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-170934 recovered outside acceptance criteria, low biased, for trans-1,2-Dichloroethene (~27.2%). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

GC/MS Semi VOA

Method 8270D: The surrogate recovery for the laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-171106 and analytical batch 860-175237 was outside the upper control limits.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Cell17-Square 4-S-3-4-240716 (860-78355-4). These results have been reported and qualified.

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

Gasoline Range Organics

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

Diesel Range Organics

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Case Narrative

Client: Arcadis U.S., Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Job ID: 860-78355-1 (Continued)

Eurofins Houston

Method 8015D_DRO: The method blank for preparation batch 500-778072 and analytical batch 500-778359 contained C10-C28 and C28-C36 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

PCBs

Method 8082A: The surrogate recovery for the blank associated with preparation batch 860-171151 and analytical batch 860-171128 was outside the upper control limits.

Method 8082A: The surrogate recovery for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with preparation batch 860-171151 and analytical batch 860-171128 was outside the upper control limits. (LCS 860-171151/4-A) and (LCSD 860-171151/5-A)

Method 8082A: Surrogate recovery for the following sample was outside the upper control limit: Cell17-Square 24-S-3-4-240716 (860-78355-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Pesticides

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

HPLC/IC

Method 9056A_ORGFM_28D: The instrument blank/CCB for analytical batch 860-170994 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 9056A_ORGFM_48H: The following samples were analyzed outside of analytical holding time due to lab error: Cell17-Square 64-S-3-4-240716 (860-78355-1), Cell17-Square 44-S-3-4-240716 (860-78355-2), Cell17-Square 24-S-3-4-240716 (860-78355-3) and Cell17-Square 4-S-3-4-240716 (860-78355-4).

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Per client request the samples were treated as discrete samples where they were air dried and aliquotted, but did not have ISM performed and were not sieved. The prep for these samples deviated from SOP as they were not sieved or ISM aliquotted as required by DV-OP-0013 sections 10.5 and 10.6 and DV-OP-0018 section 2.0.

Cell17-Square 64-S-3-4-240716 (860-78355-1), Cell17-Square 44-S-3-4-240716 (860-78355-2), Cell17-Square 24-S-3-4-240716 (860-78355-3), Cell17-Square 4-S-3-4-240716 (860-78355-4), (860-78355-B-2 MS) and (860-78355-B-2 MSD) in preparation batch 280-661265 by Dry_Sample for 8330B_Sonc_10g/8330B.

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

LCMS

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

PFAS

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

Metals

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

General Chemistry

Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-170959 and analytical batch 860-171068 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 9066 - Soluble: The method blank for analytical batch 860-177489 contained Phenols, Total 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. The method blank associated with these samples was non-detect.

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Case Narrative

Client: Arcadis U.S., Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Job ID: 860-78355-1 (Continued)**Eurofins Houston**

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

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-671999

Many isotopes requested by gamma spectrometry analysis do not have any gamma emissions, the gamma emissions they do have are very poor, and/or are reported by assuming secular equilibrium with a longer-lived parent (or vice-versa). For example, Th-232 (which does not have a good gamma-ray) is often reported assuming the shorter-lived Ra-228 daughter is in equilibrium with the Th-232 parent. Or, Pb-214 and/or Bi-214, daughters of potentially volatile Rn-222 in the Ra-226 decay chain, may not be in equilibrium with the parent unless sufficient time has been allowed since the break in equilibrium (e.g. 21 days in the case of Ra-226-supported ingrowth). The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from Reported to Analyte

Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Cell17-Square 64-S-3-4-240716 (860-78355-1), Cell17-Square 44-S-3-4-240716 (860-78355-2), Cell17-Square 24-S-3-4-240716 (860-78355-3), Cell17-Square 4-S-3-4-240716 (860-78355-4) and (860-78355-C-1-C DU)

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

Eurofins Houston

Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78355-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	6.98	J b	8.36	2.48	mg/Kg	1	☼	8015D	Total/NA
C28-C36	12.9	J b	16.8	8.46	mg/Kg	1	☼	8015D	Total/NA
Chloride	611		9.94	4.97	mg/Kg	1		9056A	Total/NA
Nitrate as N	7.17	H	0.994	0.688	mg/Kg	1		9056A	Total/NA
Fluoride	4.96	J	4.97	0.994	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	7.17	H	0.994	0.499	mg/Kg	1		9056A	Total/NA
Sulfate	63.0		9.94	4.29	mg/Kg	1		9056A	Total/NA
Perchlorate	0.577	J b	0.876	0.0964	ug/Kg	1	☼	6850	Total/NA
Arsenic	4.43		1.69	0.436	mg/Kg	5		6020A	Total/NA
Barium	320		1.69	0.581	mg/Kg	5		6020A	Total/NA
Chromium	2.54		1.69	0.229	mg/Kg	5		6020A	Total/NA
Copper	1.45	J	1.69	0.492	mg/Kg	5		6020A	Total/NA
Iron	2280		8.47	3.49	mg/Kg	5		6020A	Total/NA
Manganese	18.5		0.847	0.181	mg/Kg	5		6020A	Total/NA
Lead	1.33		0.847	0.269	mg/Kg	5		6020A	Total/NA
Uranium	0.530		0.424	0.119	mg/Kg	5		6020A	Total/NA
Zinc	5.19		1.69	0.496	mg/Kg	5		6020A	Total/NA
Cyanide, Total	32.3	J	60.0	29.8	ug/Kg	1		9012B	Total/NA
pH	8.4	HF			SU	1		9045D	Soluble
Total Dissolved Solids	136		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-Square 44-S-3-4-240716

Lab Sample ID: 860-78355-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	4.18	J b	8.83	2.62	mg/Kg	1	☼	8015D	Total/NA
C28-C36	11.5	J b	17.8	8.94	mg/Kg	1	☼	8015D	Total/NA
Chloride	208		10.0	5.02	mg/Kg	1		9056A	Total/NA
Nitrate as N	5.98	H	1.00	0.695	mg/Kg	1		9056A	Total/NA
Fluoride	9.95		5.02	1.00	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.98	H	1.00	0.504	mg/Kg	1		9056A	Total/NA
Sulfate	121		10.0	4.34	mg/Kg	1		9056A	Total/NA
Perchlorate	0.273	J b	0.881	0.0969	ug/Kg	1	☼	6850	Total/NA
Arsenic	5.08		1.72	0.444	mg/Kg	5		6020A	Total/NA
Barium	295		1.72	0.591	mg/Kg	5		6020A	Total/NA
Chromium	2.46		1.72	0.233	mg/Kg	5		6020A	Total/NA
Copper	1.55	J	1.72	0.500	mg/Kg	5		6020A	Total/NA
Iron	2000		8.62	3.55	mg/Kg	5		6020A	Total/NA
Manganese	17.7		0.862	0.184	mg/Kg	5		6020A	Total/NA
Lead	1.24		0.862	0.273	mg/Kg	5		6020A	Total/NA
Uranium	0.615		0.431	0.121	mg/Kg	5		6020A	Total/NA
Zinc	5.37		1.72	0.504	mg/Kg	5		6020A	Total/NA
Cyanide, Total	51.6	J	60.0	29.8	ug/Kg	1		9012B	Total/NA
pH	9.5	HF			SU	1		9045D	Soluble
Phenols, Total	0.311		0.107	0.0640	mg/Kg	1	☼	9066	Soluble
Total Dissolved Solids	98.5		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-Square 24-S-3-4-240716

Lab Sample ID: 860-78355-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.15	J b	9.01	2.67	mg/Kg	1	☼	8015D	Total/NA
C28-C36	10.0	J b	18.1	9.12	mg/Kg	1	☼	8015D	Total/NA
Chloride	148		10.1	5.05	mg/Kg	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 24-S-3-4-240716 (Continued)

Lab Sample ID: 860-78355-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	2.10	H	1.01	0.699	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	2.40	H	1.01	0.507	mg/Kg	1		9056A	Total/NA
Sulfate	3510		10.1	4.36	mg/Kg	1		9056A	Total/NA
Perchlorate	3.18	b	0.877	0.0965	ug/Kg	1	⚠	6850	Total/NA
Arsenic	3.49		1.67	0.429	mg/Kg	5		6020A	Total/NA
Barium	403		1.67	0.571	mg/Kg	5		6020A	Total/NA
Chromium	2.75		1.67	0.225	mg/Kg	5		6020A	Total/NA
Copper	2.05		1.67	0.483	mg/Kg	5		6020A	Total/NA
Iron	2070		8.33	3.43	mg/Kg	5		6020A	Total/NA
Manganese	17.5		0.833	0.178	mg/Kg	5		6020A	Total/NA
Lead	1.10		0.833	0.264	mg/Kg	5		6020A	Total/NA
Uranium	0.445		0.417	0.117	mg/Kg	5		6020A	Total/NA
Zinc	5.43		1.67	0.488	mg/Kg	5		6020A	Total/NA
Mercury	0.0124	J	0.0189	0.00844	mg/Kg	1		7471B	Total/NA
pH	7.4	HF			SU	1		9045D	Soluble
Phenols, Total	0.175		0.119	0.0716	mg/Kg	1	⚠	9066	Soluble
Total Dissolved Solids	269		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.29	J b	8.90	2.64	mg/Kg	1	⚠	8015D	Total/NA
C28-C36	9.44	J b	17.9	9.01	mg/Kg	1	⚠	8015D	Total/NA
Chloride	536		9.90	4.95	mg/Kg	1		9056A	Total/NA
Nitrate as N	5.29	H	0.990	0.685	mg/Kg	1		9056A	Total/NA
Fluoride	2.30	J	4.95	0.990	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.52	H	0.990	0.497	mg/Kg	1		9056A	Total/NA
Sulfate	126		9.90	4.28	mg/Kg	1		9056A	Total/NA
Perchlorate	0.861	b	0.842	0.0927	ug/Kg	1	⚠	6850	Total/NA
Arsenic	4.58		1.67	0.429	mg/Kg	5		6020A	Total/NA
Barium	297		1.67	0.571	mg/Kg	5		6020A	Total/NA
Chromium	2.56		1.67	0.225	mg/Kg	5		6020A	Total/NA
Copper	1.87		1.67	0.483	mg/Kg	5		6020A	Total/NA
Iron	1980		8.33	3.43	mg/Kg	5		6020A	Total/NA
Manganese	17.0		0.833	0.178	mg/Kg	5		6020A	Total/NA
Lead	1.06		0.833	0.264	mg/Kg	5		6020A	Total/NA
Uranium	0.490		0.417	0.117	mg/Kg	5		6020A	Total/NA
Zinc	5.04		1.67	0.488	mg/Kg	5		6020A	Total/NA
Mercury	0.0106	J	0.0185	0.00829	mg/Kg	1		7471B	Total/NA
Cyanide, Total	125		60.0	29.8	ug/Kg	1		9012B	Total/NA
pH	8.8	HF			SU	1		9045D	Soluble
Phenols, Total	0.117		0.101	0.0605	mg/Kg	1	⚠	9066	Soluble
Total Dissolved Solids	123		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.43	U	49.8	5.43	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Acrylonitrile	7.93	U	19.9	7.93	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Benzene	0.381	U	0.996	0.381	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Bromodichloromethane	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Tribromomethane	2.20	U	4.98	2.20	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Bromomethane	0.926	U	4.98	0.926	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Methyl tert-butyl ether	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Carbon tetrachloride	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Monochlorobenzene	0.621	U	4.98	0.621	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Chloroform	0.522	U	4.98	0.522	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Chloromethane	0.934	U	4.98	0.934	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,2-Dibromoethane	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,2-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,3-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,4-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Dichlorodifluoromethane	1.91	U	4.98	1.91	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,1-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,2-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,1-Dichloroethene	0.571	U	4.98	0.571	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
cis-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
trans-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,2-Dichloropropane	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
cis-1,3-Dichloropropene	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
trans-1,3-Dichloropropene	1.66	U	4.98	1.66	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,1-Dichloropropene	0.513	U	4.98	0.513	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,4-Dioxane	23.9	U	99.6	23.9	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Ethylbenzene	0.303	U	0.996	0.303	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Methylene Chloride	8.39	U	19.9	8.39	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Styrene	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,1,2,2-Tetrachloroethane	0.351	U	4.98	0.351	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Tetrachloroethene	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Toluene	1.21	U	4.98	1.21	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
m,p-Xylenes	0.000431	U	0.00199	0.000431	mg/Kg		07/18/24 11:17	07/18/24 19:03	1
1,2,4-Trichlorobenzene	1.00	U	4.98	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,1,1-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,1,2-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Trichloroethene	0.996	U	4.98	0.996	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
o-Xylene	0.000315	U	0.000996	0.000315	mg/Kg		07/18/24 11:17	07/18/24 19:03	1
Trichlorofluoromethane	1.78	U	4.98	1.78	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Vinyl chloride	0.621	U	4.98	0.621	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
Xylenes, Total	0.431	U	1.99	0.431	ug/Kg		07/18/24 11:17	07/18/24 19:03	1
1,3-Dichloropropene, Total	1.66	U	4.98	1.66	ug/Kg		07/18/24 11:17	07/18/24 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	90		53 - 142	07/18/24 11:17	07/18/24 19:03	1
Toluene-d8 (Surr)	98		70 - 130	07/18/24 11:17	07/18/24 19:03	1
4-Bromofluorobenzene (Surr)	96		68 - 152	07/18/24 11:17	07/18/24 19:03	1
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	07/18/24 11:17	07/18/24 19:03	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00249	U H	0.00498	0.00249	mg/Kg		07/23/24 10:58	07/23/24 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				07/23/24 10:58	07/23/24 14:51	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 10:44	07/23/24 17:17	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/19/24 10:44	07/23/24 17:17	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 10:44	07/23/24 17:17	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 10:44	07/23/24 17:17	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.666	U	mg/Kg			542-88-1	07/19/24 10:44	07/23/24 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	40		30 - 115	07/19/24 10:44	07/23/24 17:17	1
2-Fluorophenol	46		25 - 121	07/19/24 10:44	07/23/24 17:17	1
2,4,6-Tribromophenol	23		19 - 122	07/19/24 10:44	07/23/24 17:17	1
Nitrobenzene-d5	34		23 - 129	07/19/24 10:44	07/23/24 17:17	1
Phenol-d5 (Surr)	36		24 - 113	07/19/24 10:44	07/23/24 17:17	1
p-Terphenyl-d14 (Surr)	74		18 - 137	07/19/24 10:44	07/23/24 17:17	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Aldrin	0.186	U	0.833	0.186	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Hexachlorocyclohexane, alpha-	0.163	U	0.833	0.163	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Hexachlorocyclohexane, beta-	0.155	U	0.833	0.155	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Chlordane (technical)	12.0	U	41.6	12.0	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Hexachlorocyclohexane, delta-	0.343	U	0.833	0.343	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Endosulfan II	0.247	U	0.833	0.247	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Endrin	0.291	U	0.833	0.291	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Hexachlorocyclohexane, gamma-	0.158	U	0.833	0.158	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Heptachlor	0.214	U	0.833	0.214	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Heptachlor epoxide	0.182	U	0.833	0.182	ug/Kg		07/19/24 09:45	07/23/24 19:50	1
Toxaphene	9.77	U	16.6	9.77	ug/Kg		07/19/24 09:45	07/23/24 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		35 - 135	07/19/24 09:45	07/23/24 19:50	1
DCB Decachlorobiphenyl (Surr)	75		25 - 143	07/19/24 09:45	07/23/24 19:50	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:16	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:16	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:16	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:16	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:16	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		07/19/24 09:45	07/19/24 15:16	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		07/19/24 09:45	07/19/24 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		35 - 140				07/19/24 09:45	07/19/24 15:16	1
DCB Decachlorobiphenyl (Surr)	132		37 - 142				07/19/24 09:45	07/19/24 15:16	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0210	U	0.0927	0.0210	mg/Kg		07/23/24 18:08	07/25/24 00:59	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0399	U	0.185	0.0399	mg/Kg		07/23/24 18:08	07/25/24 00:59	1
2,4,6-Trinitrotoluene	0.0285	U	0.0927	0.0285	mg/Kg		07/23/24 18:08	07/25/24 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122				07/23/24 18:08	07/25/24 00:59	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	611		9.94	4.97	mg/Kg		07/17/24 15:14	07/19/24 18:18	1
Nitrate as N	7.17	H	0.994	0.688	mg/Kg		07/17/24 15:14	07/19/24 18:18	1
Fluoride	4.96	J	4.97	0.994	mg/Kg		07/17/24 15:14	07/19/24 18:18	1
Nitrite as N	0.499	U H	0.994	0.499	mg/Kg		07/17/24 15:14	07/19/24 18:18	1
Nitrate Nitrite as N	7.17	H	0.994	0.499	mg/Kg		07/17/24 15:14	07/19/24 18:18	1
Sulfate	63.0		9.94	4.29	mg/Kg		07/17/24 15:14	07/19/24 18:18	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.203	U	0.847	0.203	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Arsenic	4.43		1.69	0.436	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Barium	320		1.69	0.581	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Beryllium	0.214	U	0.847	0.214	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Cadmium	0.226	U	0.847	0.226	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Chromium	2.54		1.69	0.229	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Copper	1.45	J	1.69	0.492	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Iron	2280		8.47	3.49	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Manganese	18.5		0.847	0.181	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Lead	1.33		0.847	0.269	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Antimony	0.903	U	1.69	0.903	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Selenium	0.400	U	0.847	0.400	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Thallium	0.228	U	0.847	0.228	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Uranium	0.530		0.424	0.119	mg/Kg		07/26/24 16:59	07/30/24 11:19	5
Zinc	5.19		1.69	0.496	mg/Kg		07/26/24 16:59	07/30/24 11:19	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		07/24/24 09:45	07/24/24 19:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	32.3	J	60.0	29.8	ug/Kg		07/18/24 11:52	07/18/24 16:26	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.4	HF			SU			07/24/24 21:01	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	136		5.00	5.00	mg/L			07/30/24 10:18	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.21		0.204	0.237	1.00	0.146	pCi/g	07/23/24 14:27	08/13/24 09:57	1
Radium-228	0.330		0.150	0.153		0.142	pCi/g	07/23/24 14:27	08/13/24 09:57	1
Combined Radium 226 + 228	1.54		0.253	0.282		0.146	pCi/g	07/23/24 14:27	08/13/24 09:57	1

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

Percent Solids: 95.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.2	12.0	ug/Kg	✧	07/20/24 11:33	07/22/24 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	84		30 - 164				07/20/24 11:33	07/22/24 19:04	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.62	U	10.5	2.62	mg/Kg	✧	07/23/24 13:01	07/25/24 02:05	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/23/24 13:01	07/25/24 02:05	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6.98	J b	8.36	2.48	mg/Kg	✧	07/24/24 07:31	07/25/24 15:17	1
C28-C36	12.9	J b	16.8	8.46	mg/Kg	✧	07/24/24 07:31	07/25/24 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	95		50 - 126				07/24/24 07:31	07/25/24 15:17	1
2-Fluorobiphenyl	53		40 - 133				07/24/24 07:31	07/25/24 15:17	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0885	U	0.210	0.0885	ug/Kg	✧	07/29/24 08:34	07/30/24 14:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.0227	U	0.210	0.0227	ug/Kg	✧	07/29/24 08:34	07/30/24 14:16	1
Perfluorooctanesulfonic acid (PFOS)	0.0295	U	0.210	0.0295	ug/Kg	✧	07/29/24 08:34	07/30/24 14:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	85.1		40 - 130				07/29/24 08:34	07/30/24 14:16	1
13C3 PFHxS	85.8		40 - 130				07/29/24 08:34	07/30/24 14:16	1
13C8 PFOS	82.5		40 - 130				07/29/24 08:34	07/30/24 14:16	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

Percent Solids: 95.3

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.577	J b	0.876	0.0964	ug/Kg	☆	07/23/24 12:18	07/24/24 15:32	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.0686	U	0.114	0.0686	mg/Kg	☆		07/24/24 23:49	1

Client Sample ID: Cell17-Square 44-S-3-4-240716

Lab Sample ID: 860-78355-2

Date Collected: 07/16/24 12:00

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.47	U	50.2	5.47	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Acrylonitrile	7.99	U	20.1	7.99	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Benzene	0.384	U	1.00	0.384	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Bromodichloromethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Tribromomethane	2.22	U	5.02	2.22	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Bromomethane	0.933	U	5.02	0.933	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Methyl tert-butyl ether	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Carbon tetrachloride	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Monochlorobenzene	0.626	U	5.02	0.626	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Chloroform	0.527	U	5.02	0.527	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Chloromethane	0.942	U	5.02	0.942	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,2-Dibromoethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,2-Dichlorobenzene	1.46	U	5.02	1.46	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,3-Dichlorobenzene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,4-Dichlorobenzene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Dichlorodifluoromethane	1.92	U	5.02	1.92	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,1-Dichloroethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,2-Dichloroethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,1-Dichloroethene	0.576	U	5.02	0.576	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
cis-1,2-Dichloroethene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
trans-1,2-Dichloroethene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,2-Dichloropropane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
cis-1,3-Dichloropropene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
trans-1,3-Dichloropropene	1.67	U	5.02	1.67	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,1-Dichloropropene	0.517	U	5.02	0.517	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,4-Dioxane	24.1	U	100	24.1	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Ethylbenzene	0.306	U	1.00	0.306	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Methylene Chloride	8.45	U	20.1	8.45	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Styrene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,1,2,2-Tetrachloroethane	0.354	U	5.02	0.354	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Tetrachloroethene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Toluene	1.22	U	5.02	1.22	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
m,p-Xylenes	0.000435	U	0.00201	0.000435	mg/Kg		07/18/24 11:17	07/18/24 19:25	1
1,2,4-Trichlorobenzene	1.01	U	5.02	1.01	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,1,1-Trichloroethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,1,2-Trichloroethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Trichloroethene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
o-Xylene	0.000317	U	0.00100	0.000317	mg/Kg		07/18/24 11:17	07/18/24 19:25	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 44-S-3-4-240716

Lab Sample ID: 860-78355-2

Date Collected: 07/16/24 12:00

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.79	U	5.02	1.79	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Vinyl chloride	0.626	U	5.02	0.626	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
Xylenes, Total	0.435	U	2.01	0.435	ug/Kg		07/18/24 11:17	07/18/24 19:25	1
1,3-Dichloropropene, Total	1.67	U	5.02	1.67	ug/Kg		07/18/24 11:17	07/18/24 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		53 - 142	07/18/24 11:17	07/18/24 19:25	1
Toluene-d8 (Surr)	96		70 - 130	07/18/24 11:17	07/18/24 19:25	1
4-Bromofluorobenzene (Surr)	97		68 - 152	07/18/24 11:17	07/18/24 19:25	1
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	07/18/24 11:17	07/18/24 19:25	1

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00249	U H	0.00497	0.00249	mg/Kg		07/23/24 10:58	07/23/24 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144	07/23/24 10:58	07/23/24 15:16	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 10:44	07/23/24 17:41	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 44-S-3-4-240716

Lab Sample ID: 860-78355-2

Date Collected: 07/16/24 12:00

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		07/19/24 10:44	07/23/24 17:41	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 10:44	07/23/24 17:41	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 10:44	07/23/24 17:41	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.666	U	mg/Kg			542-88-1	07/19/24 10:44	07/23/24 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	41		30 - 115	07/19/24 10:44	07/23/24 17:41	1
2-Fluorophenol	47		25 - 121	07/19/24 10:44	07/23/24 17:41	1
2,4,6-Tribromophenol	22		19 - 122	07/19/24 10:44	07/23/24 17:41	1
Nitrobenzene-d5	35		23 - 129	07/19/24 10:44	07/23/24 17:41	1
Phenol-d5 (Surr)	38		24 - 113	07/19/24 10:44	07/23/24 17:41	1
p-Terphenyl-d14 (Surr)	80		18 - 137	07/19/24 10:44	07/23/24 17:41	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.834	0.254	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Aldrin	0.187	U	0.834	0.187	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Hexachlorocyclohexane, alpha-	0.163	U	0.834	0.163	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Hexachlorocyclohexane, beta-	0.155	U	0.834	0.155	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Chlordane (technical)	12.1	U	41.7	12.1	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Hexachlorocyclohexane, delta-	0.344	U	0.834	0.344	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Dieldrin	0.170	U	0.834	0.170	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Endosulfan I	0.202	U	0.834	0.202	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Endosulfan II	0.247	U	0.834	0.247	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Endosulfan sulfate	0.276	U	0.834	0.276	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Endrin	0.291	U	0.834	0.291	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Endrin aldehyde	0.248	U	0.834	0.248	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Hexachlorocyclohexane, gamma-	0.158	U	0.834	0.158	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Heptachlor	0.215	U	0.834	0.215	ug/Kg		07/19/24 09:45	07/23/24 20:06	1
Heptachlor epoxide	0.183	U	0.834	0.183	ug/Kg		07/19/24 09:45	07/23/24 20:06	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 44-S-3-4-240716

Lab Sample ID: 860-78355-2

Date Collected: 07/16/24 12:00

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	9.79	U	16.7	9.79	ug/Kg		07/19/24 09:45	07/23/24 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		35 - 135	07/19/24 09:45	07/23/24 20:06	1
DCB Decachlorobiphenyl (Surr)	79		25 - 143	07/19/24 09:45	07/23/24 20:06	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 15:28	1
Aroclor 1221	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 15:28	1
Aroclor 1232	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 15:28	1
Aroclor 1242	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 15:28	1
Aroclor 1248	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 15:28	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 15:28	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		35 - 140	07/19/24 09:45	07/19/24 15:28	1
DCB Decachlorobiphenyl (Surr)	133		37 - 142	07/19/24 09:45	07/19/24 15:28	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0217	U	0.0958	0.0217	mg/Kg		07/23/24 18:08	07/25/24 01:22	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0412	U	0.192	0.0412	mg/Kg		07/23/24 18:08	07/25/24 01:22	1
2,4,6-Trinitrotoluene	0.0294	U	0.0958	0.0294	mg/Kg		07/23/24 18:08	07/25/24 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	07/23/24 18:08	07/25/24 01:22	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		10.0	5.02	mg/Kg		07/17/24 15:14	07/19/24 18:25	1
Nitrate as N	5.98	H	1.00	0.695	mg/Kg		07/17/24 15:14	07/19/24 18:25	1
Fluoride	9.95		5.02	1.00	mg/Kg		07/17/24 15:14	07/19/24 18:25	1
Nitrite as N	0.504	U H	1.00	0.504	mg/Kg		07/17/24 15:14	07/19/24 18:25	1
Nitrate Nitrite as N	5.98	H	1.00	0.504	mg/Kg		07/17/24 15:14	07/19/24 18:25	1
Sulfate	121		10.0	4.34	mg/Kg		07/17/24 15:14	07/19/24 18:25	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.206	U	0.862	0.206	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Arsenic	5.08		1.72	0.444	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Barium	295		1.72	0.591	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Beryllium	0.218	U	0.862	0.218	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Cadmium	0.230	U	0.862	0.230	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Chromium	2.46		1.72	0.233	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Copper	1.55	J	1.72	0.500	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Iron	2000		8.62	3.55	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Manganese	17.7		0.862	0.184	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Lead	1.24		0.862	0.273	mg/Kg		07/26/24 16:59	07/30/24 11:21	5

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Method: SW846 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Selenium	0.407	U	0.862	0.407	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Thallium	0.232	U	0.862	0.232	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Uranium	0.615		0.431	0.121	mg/Kg		07/26/24 16:59	07/30/24 11:21	5
Zinc	5.37		1.72	0.504	mg/Kg		07/26/24 16:59	07/30/24 11:21	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00814	U	0.0182	0.00814	mg/Kg		07/24/24 09:45	07/24/24 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	51.6	J	60.0	29.8	ug/Kg		07/18/24 11:52	07/18/24 16:29	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.5	HF			SU			07/24/24 21:01	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	98.5		5.00	5.00	mg/L			07/30/24 10:18	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.77		0.237	0.295	1.00	0.138	pCi/g	07/23/24 14:27	08/13/24 10:32	1
Radium-228	0.191	U	0.149	0.151		0.348	pCi/g	07/23/24 14:27	08/13/24 10:32	1
Combined Radium 226 + 228	1.97		0.280	0.331		0.348	pCi/g	07/23/24 14:27	08/13/24 10:32	1

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Matrix: Solid

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Percent Solids: 93.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.7	U	70.1	12.7	ug/Kg	☼	07/20/24 11:33	07/22/24 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	78		30 - 164				07/20/24 11:33	07/22/24 19:30	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.64	U	10.6	2.64	mg/Kg	☼	07/23/24 13:01	07/25/24 02:39	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/23/24 13:01	07/25/24 02:39	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4.18	J b	8.83	2.62	mg/Kg	☼	07/24/24 07:31	07/25/24 15:41	1

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Date Received: 07/17/24 09:36

Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C28-C36	11.5	J b	17.8	8.94	mg/Kg	☆	07/24/24 07:31	07/25/24 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	96		50 - 126	07/24/24 07:31	07/25/24 15:41	1
2-Fluorobiphenyl	81		40 - 133	07/24/24 07:31	07/25/24 15:41	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0750	U	0.178	0.0750	ug/Kg	☆	07/29/24 08:34	07/30/24 14:35	1
Perfluorohexanesulfonic acid (PFHxS)	0.0192	U	0.178	0.0192	ug/Kg	☆	07/29/24 08:34	07/30/24 14:35	1
Perfluorooctanesulfonic acid (PFOS)	0.0250	U	0.178	0.0250	ug/Kg	☆	07/29/24 08:34	07/30/24 14:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	83.7		40 - 130	07/29/24 08:34	07/30/24 14:35	1
13C3 PFHxS	80.2		40 - 130	07/29/24 08:34	07/30/24 14:35	1
13C8 PFOS	83.8		40 - 130	07/29/24 08:34	07/30/24 14:35	1

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.273	J b	0.881	0.0969	ug/Kg	☆	07/23/24 12:18	07/24/24 15:37	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.311		0.107	0.0640	mg/Kg	☆		07/25/24 00:00	1

Client Sample ID: Cell17-Square 24-S-3-4-240716

Lab Sample ID: 860-78355-3

Date Collected: 07/16/24 13:30

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.41	U	49.6	5.41	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Acrylonitrile	7.89	U	19.8	7.89	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Benzene	0.379	U	0.992	0.379	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Bromodichloromethane	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Tribromomethane	2.19	U	4.96	2.19	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Bromomethane	0.922	U	4.96	0.922	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Methyl tert-butyl ether	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Carbon tetrachloride	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Monochlorobenzene	0.618	U	4.96	0.618	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Chloroform	0.520	U	4.96	0.520	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Chloromethane	0.930	U	4.96	0.930	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,2-Dibromoethane	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,2-Dichlorobenzene	1.44	U	4.96	1.44	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,3-Dichlorobenzene	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,4-Dichlorobenzene	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Dichlorodifluoromethane	1.90	U	4.96	1.90	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,1-Dichloroethane	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,2-Dichloroethane	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,1-Dichloroethene	0.569	U	4.96	0.569	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
cis-1,2-Dichloroethene	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
trans-1,2-Dichloroethene	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1

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Date Collected: 07/16/24 13:30

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
cis-1,3-Dichloropropene	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
trans-1,3-Dichloropropene	1.65	U	4.96	1.65	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,1-Dichloropropene	0.511	U	4.96	0.511	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,4-Dioxane	23.8	U	99.2	23.8	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Ethylbenzene	0.302	U	0.992	0.302	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Methylene Chloride	8.35	U	19.8	8.35	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Styrene	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,1,2,2-Tetrachloroethane	0.350	U	4.96	0.350	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Tetrachloroethene	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Toluene	1.20	U	4.96	1.20	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
m,p-Xylenes	0.000429	U	0.00198	0.000429	mg/Kg		07/18/24 11:17	07/18/24 19:46	1
1,2,4-Trichlorobenzene	0.998	U	4.96	0.998	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,1,1-Trichloroethane	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,1,2-Trichloroethane	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Trichloroethene	0.992	U	4.96	0.992	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
o-Xylene	0.000314	U	0.000992	0.000314	mg/Kg		07/18/24 11:17	07/18/24 19:46	1
Trichlorofluoromethane	1.77	U	4.96	1.77	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Vinyl chloride	0.619	U	4.96	0.619	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
Xylenes, Total	0.429	U	1.98	0.429	ug/Kg		07/18/24 11:17	07/18/24 19:46	1
1,3-Dichloropropene, Total	1.65	U	4.96	1.65	ug/Kg		07/18/24 11:17	07/18/24 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		53 - 142	07/18/24 11:17	07/18/24 19:46	1
Toluene-d8 (Surr)	97		70 - 130	07/18/24 11:17	07/18/24 19:46	1
4-Bromofluorobenzene (Surr)	96		68 - 152	07/18/24 11:17	07/18/24 19:46	1
1,2-Dichloroethane-d4 (Surr)	108		56 - 150	07/18/24 11:17	07/18/24 19:46	1

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U H	0.00501	0.00251	mg/Kg		07/23/24 10:58	07/23/24 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144	07/23/24 10:58	07/23/24 15:41	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
2,4-Dinitrotoluene	12.8	U	167	12.8	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Dinitrophenols	24.2	U	334	24.2	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
2,4-Dichlorophenol	17.5	U	167	17.5	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Dichlorobenzidine, 3,3'-	15.4	U	334	15.4	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
4,6-Dinitro-2-methylphenol	12.7	U	334	12.7	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 10:44	07/23/24 18:05	1

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Matrix: Solid

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Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Di (2-ethylhexyl)phthalate	167	U	334	167	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Dibutylphthalate	16.1	U	167	16.1	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Fluorene	13.9	U	167	13.9	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Hexachlorobutadiene	13.9	U	167	13.9	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Indeno[1,2,3-cd]pyrene	13.5	U	167	13.5	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Pentachlorophenol	12.1	U	334	12.1	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Benzidine	12.1	U	334	12.1	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Phenol	0.0150	U	0.334	0.0150	mg/Kg		07/19/24 10:44	07/23/24 18:05	1
N-Nitrosodimethylamine	16.8	U	167	16.8	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Atrazine	16.5	U	334	16.5	ug/Kg		07/19/24 10:44	07/23/24 18:05	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	334	333	ug/Kg		07/19/24 10:44	07/23/24 18:05	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.668	U	mg/Kg			542-88-1	07/19/24 10:44	07/23/24 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	50		30 - 115	07/19/24 10:44	07/23/24 18:05	1
2-Fluorophenol	62		25 - 121	07/19/24 10:44	07/23/24 18:05	1
2,4,6-Tribromophenol	21		19 - 122	07/19/24 10:44	07/23/24 18:05	1
Nitrobenzene-d5	48		23 - 129	07/19/24 10:44	07/23/24 18:05	1
Phenol-d5 (Surr)	48		24 - 113	07/19/24 10:44	07/23/24 18:05	1
p-Terphenyl-d14 (Surr)	76		18 - 137	07/19/24 10:44	07/23/24 18:05	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 24-S-3-4-240716

Lab Sample ID: 860-78355-3

Date Collected: 07/16/24 13:30

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.832	0.254	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Aldrin	0.186	U	0.832	0.186	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Hexachlorocyclohexane, alpha-	0.163	U	0.832	0.163	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Hexachlorocyclohexane, beta-	0.155	U	0.832	0.155	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Chlordane (technical)	12.0	U	41.6	12.0	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Hexachlorocyclohexane, delta-	0.343	U	0.832	0.343	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Endosulfan II	0.247	U	0.832	0.247	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Endosulfan sulfate	0.276	U	0.832	0.276	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Endrin	0.291	U	0.832	0.291	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Hexachlorocyclohexane, gamma-	0.158	U	0.832	0.158	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Heptachlor	0.214	U	0.832	0.214	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Heptachlor epoxide	0.182	U	0.832	0.182	ug/Kg		07/19/24 09:45	07/23/24 20:23	1
Toxaphene	9.77	U	16.6	9.77	ug/Kg		07/19/24 09:45	07/23/24 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		35 - 135	07/19/24 09:45	07/23/24 20:23	1
DCB Decachlorobiphenyl (Surr)	96		25 - 143	07/19/24 09:45	07/23/24 20:23	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:40	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:40	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:40	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:40	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:40	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		07/19/24 09:45	07/19/24 15:40	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		07/19/24 09:45	07/19/24 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		35 - 140	07/19/24 09:45	07/19/24 15:40	1
DCB Decachlorobiphenyl (Surr)	150	X	37 - 142	07/19/24 09:45	07/19/24 15:40	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0208	U	0.0917	0.0208	mg/Kg		07/23/24 18:08	07/25/24 02:31	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0394	U	0.183	0.0394	mg/Kg		07/23/24 18:08	07/25/24 02:31	1
2,4,6-Trinitrotoluene	0.0281	U	0.0917	0.0281	mg/Kg		07/23/24 18:08	07/25/24 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	07/23/24 18:08	07/25/24 02:31	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		10.1	5.05	mg/Kg		07/17/24 15:14	07/19/24 18:32	1
Nitrate as N	2.10	H	1.01	0.699	mg/Kg		07/17/24 15:14	07/19/24 18:32	1
Fluoride	1.01	U	5.05	1.01	mg/Kg		07/17/24 15:14	07/19/24 18:32	1
Nitrite as N	0.507	U H	1.01	0.507	mg/Kg		07/17/24 15:14	07/19/24 18:32	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 24-S-3-4-240716

Lab Sample ID: 860-78355-3

Date Collected: 07/16/24 13:30

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 9056A - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	2.40	H	1.01	0.507	mg/Kg		07/17/24 15:14	07/19/24 18:32	1
Sulfate	3510		10.1	4.36	mg/Kg		07/17/24 15:14	07/19/24 18:32	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.199	U	0.833	0.199	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Arsenic	3.49		1.67	0.429	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Barium	403		1.67	0.571	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Beryllium	0.211	U	0.833	0.211	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Cadmium	0.223	U	0.833	0.223	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Chromium	2.75		1.67	0.225	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Copper	2.05		1.67	0.483	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Iron	2070		8.33	3.43	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Manganese	17.5		0.833	0.178	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Lead	1.10		0.833	0.264	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Antimony	0.888	U	1.67	0.888	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Selenium	0.394	U	0.833	0.394	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Thallium	0.225	U	0.833	0.225	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Uranium	0.445		0.417	0.117	mg/Kg		07/26/24 16:59	07/30/24 11:23	5
Zinc	5.43		1.67	0.488	mg/Kg		07/26/24 16:59	07/30/24 11:23	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0124	J	0.0189	0.00844	mg/Kg		07/24/24 09:45	07/24/24 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	29.2	U	58.8	29.2	ug/Kg		07/18/24 11:52	07/18/24 16:29	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.4	HF			SU			07/24/24 21:01	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	269		5.00	5.00	mg/L			07/30/24 10:18	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	1.78		0.253	0.308	1.00	0.155	pCi/g	07/23/24 14:27	08/13/24 11:55	1
Radium-228	0.328		0.204	0.207		0.223	pCi/g	07/23/24 14:27	08/13/24 11:55	1
Combined Radium 226 + 228	2.11		0.325	0.371		0.223	pCi/g	07/23/24 14:27	08/13/24 11:55	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 24-S-3-4-240716

Lab Sample ID: 860-78355-3

Date Collected: 07/16/24 13:30

Matrix: Solid

Date Received: 07/17/24 09:36

Percent Solids: 91.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.6	U	69.3	12.6	ug/Kg	☆	07/20/24 11:33	07/22/24 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	77		30 - 164				07/20/24 11:33	07/22/24 19:57	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.72	U	10.9	2.72	mg/Kg	☆	07/23/24 13:01	07/25/24 03:12	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				07/23/24 13:01	07/25/24 03:12	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.15	J b	9.01	2.67	mg/Kg	☆	07/24/24 07:31	07/25/24 16:05	1
C28-C36	10.0	J b	18.1	9.12	mg/Kg	☆	07/24/24 07:31	07/25/24 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	93		50 - 126				07/24/24 07:31	07/25/24 16:05	1
2-Fluorobiphenyl	68		40 - 133				07/24/24 07:31	07/25/24 16:05	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0922	U	0.219	0.0922	ug/Kg	☆	07/29/24 08:34	07/30/24 15:34	1
Perfluorohexanesulfonic acid (PFHxS)	0.0236	U	0.219	0.0236	ug/Kg	☆	07/29/24 08:34	07/30/24 15:34	1
Perfluorooctanesulfonic acid (PFOS)	0.0307	U	0.219	0.0307	ug/Kg	☆	07/29/24 08:34	07/30/24 15:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	85.5		40 - 130				07/29/24 08:34	07/30/24 15:34	1
13C3 PFHxS	75.8		40 - 130				07/29/24 08:34	07/30/24 15:34	1
13C8 PFOS	80.7		40 - 130				07/29/24 08:34	07/30/24 15:34	1

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	3.18	b	0.877	0.0965	ug/Kg	☆	07/23/24 12:18	07/24/24 15:42	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.175		0.119	0.0716	mg/Kg	☆		07/25/24 00:02	1

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.47	U	50.2	5.47	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Acrylonitrile	7.99	U	20.1	7.99	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Benzene	0.384	U	1.00	0.384	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Bromodichloromethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Tribromomethane	2.22	U	5.02	2.22	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Bromomethane	0.933	U	5.02	0.933	ug/Kg		07/18/24 11:17	07/18/24 20:08	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Carbon tetrachloride	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Monochlorobenzene	0.626	U	5.02	0.626	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Chloroform	0.527	U	5.02	0.527	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Chloromethane	0.942	U	5.02	0.942	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,2-Dibromoethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,2-Dichlorobenzene	1.46	U	5.02	1.46	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,3-Dichlorobenzene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,4-Dichlorobenzene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Dichlorodifluoromethane	1.92	U	5.02	1.92	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,1-Dichloroethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,2-Dichloroethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,1-Dichloroethene	0.576	U	5.02	0.576	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
cis-1,2-Dichloroethene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
trans-1,2-Dichloroethene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,2-Dichloropropane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
cis-1,3-Dichloropropene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
trans-1,3-Dichloropropene	1.67	U	5.02	1.67	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,1-Dichloropropene	0.517	U	5.02	0.517	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,4-Dioxane	24.1	U	100	24.1	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Ethylbenzene	0.306	U	1.00	0.306	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Methylene Chloride	8.45	U	20.1	8.45	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Styrene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,1,2,2-Tetrachloroethane	0.354	U	5.02	0.354	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Tetrachloroethene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Toluene	1.22	U	5.02	1.22	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
m,p-Xylenes	0.000435	U	0.00201	0.000435	mg/Kg		07/18/24 11:17	07/18/24 20:08	1
1,2,4-Trichlorobenzene	1.01	U	5.02	1.01	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,1,1-Trichloroethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,1,2-Trichloroethane	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Trichloroethene	1.00	U	5.02	1.00	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
o-Xylene	0.000317	U	0.00100	0.000317	mg/Kg		07/18/24 11:17	07/18/24 20:08	1
Trichlorofluoromethane	1.79	U	5.02	1.79	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Vinyl chloride	0.626	U	5.02	0.626	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
Xylenes, Total	0.435	U	2.01	0.435	ug/Kg		07/18/24 11:17	07/18/24 20:08	1
1,3-Dichloropropene, Total	1.67	U	5.02	1.67	ug/Kg		07/18/24 11:17	07/18/24 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	88		53 - 142	07/18/24 11:17	07/18/24 20:08	1
Toluene-d8 (Surr)	97		70 - 130	07/18/24 11:17	07/18/24 20:08	1
4-Bromofluorobenzene (Surr)	96		68 - 152	07/18/24 11:17	07/18/24 20:08	1
1,2-Dichloroethane-d4 (Surr)	109		56 - 150	07/18/24 11:17	07/18/24 20:08	1

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00248	U H	0.00495	0.00248	mg/Kg		07/23/24 10:58	07/23/24 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 144	07/23/24 10:58	07/23/24 16:06	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/19/24 10:44	07/23/24 18:30	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 10:44	07/23/24 18:30	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 10:44	07/23/24 18:30	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 10:44	07/23/24 18:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.666	U	mg/Kg			542-88-1	07/19/24 10:44	07/23/24 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	52		30 - 115	07/19/24 10:44	07/23/24 18:30	1
2-Fluorophenol	61		25 - 121	07/19/24 10:44	07/23/24 18:30	1
2,4,6-Tribromophenol	17	X	19 - 122	07/19/24 10:44	07/23/24 18:30	1
Nitrobenzene-d5	45		23 - 129	07/19/24 10:44	07/23/24 18:30	1
Phenol-d5 (Surr)	48		24 - 113	07/19/24 10:44	07/23/24 18:30	1
p-Terphenyl-d14 (Surr)	76		18 - 137	07/19/24 10:44	07/23/24 18:30	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.832	0.254	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Aldrin	0.186	U	0.832	0.186	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Hexachlorocyclohexane, alpha-	0.163	U	0.832	0.163	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Hexachlorocyclohexane, beta-	0.155	U	0.832	0.155	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Chlordane (technical)	12.0	U	41.6	12.0	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Hexachlorocyclohexane, delta-	0.343	U	0.832	0.343	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Endosulfan II	0.247	U	0.832	0.247	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Endosulfan sulfate	0.276	U	0.832	0.276	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Endrin	0.291	U	0.832	0.291	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Hexachlorocyclohexane, gamma-	0.158	U	0.832	0.158	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Heptachlor	0.214	U	0.832	0.214	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Heptachlor epoxide	0.182	U	0.832	0.182	ug/Kg		07/19/24 09:45	07/23/24 20:39	1
Toxaphene	9.77	U	16.6	9.77	ug/Kg		07/19/24 09:45	07/23/24 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		35 - 135	07/19/24 09:45	07/23/24 20:39	1
DCB Decachlorobiphenyl (Surr)	77		25 - 143	07/19/24 09:45	07/23/24 20:39	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:53	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:53	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:53	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:53	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 15:53	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		07/19/24 09:45	07/19/24 15:53	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		07/19/24 09:45	07/19/24 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		35 - 140	07/19/24 09:45	07/19/24 15:53	1
DCB Decachlorobiphenyl (Surr)	120		37 - 142	07/19/24 09:45	07/19/24 15:53	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0223	U	0.0983	0.0223	mg/Kg		07/23/24 18:08	07/25/24 02:54	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0423	U	0.197	0.0423	mg/Kg		07/23/24 18:08	07/25/24 02:54	1
2,4,6-Trinitrotoluene	0.0302	U	0.0983	0.0302	mg/Kg		07/23/24 18:08	07/25/24 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122				07/23/24 18:08	07/25/24 02:54	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	536		9.90	4.95	mg/Kg		07/17/24 15:14	07/19/24 18:39	1
Nitrate as N	5.29	H	0.990	0.685	mg/Kg		07/17/24 15:14	07/19/24 18:39	1
Fluoride	2.30	J	4.95	0.990	mg/Kg		07/17/24 15:14	07/19/24 18:39	1
Nitrite as N	0.497	U H	0.990	0.497	mg/Kg		07/17/24 15:14	07/19/24 18:39	1
Nitrate Nitrite as N	5.52	H	0.990	0.497	mg/Kg		07/17/24 15:14	07/19/24 18:39	1
Sulfate	126		9.90	4.28	mg/Kg		07/17/24 15:14	07/19/24 18:39	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.199	U	0.833	0.199	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Arsenic	4.58		1.67	0.429	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Barium	297		1.67	0.571	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Beryllium	0.211	U	0.833	0.211	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Cadmium	0.223	U	0.833	0.223	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Chromium	2.56		1.67	0.225	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Copper	1.87		1.67	0.483	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Iron	1980		8.33	3.43	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Manganese	17.0		0.833	0.178	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Lead	1.06		0.833	0.264	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Antimony	0.888	U	1.67	0.888	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Selenium	0.394	U	0.833	0.394	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Thallium	0.225	U	0.833	0.225	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Uranium	0.490		0.417	0.117	mg/Kg		07/26/24 16:59	07/30/24 11:25	5
Zinc	5.04		1.67	0.488	mg/Kg		07/26/24 16:59	07/30/24 11:25	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0106	J	0.0185	0.00829	mg/Kg		07/24/24 09:45	07/24/24 19:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	125		60.0	29.8	ug/Kg		07/18/24 11:52	07/18/24 16:30	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.8	HF			SU			07/24/24 21:01	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	123		5.00	5.00	mg/L			07/30/24 10:18	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.61		0.246	0.293	1.00	0.170	pCi/g	07/23/24 14:27	08/13/24 12:28	1
Radium-228	0.372		0.264	0.267		0.294	pCi/g	07/23/24 14:27	08/13/24 12:28	1
Combined Radium 226 + 228	1.98		0.361	0.396		0.294	pCi/g	07/23/24 14:27	08/13/24 12:28	1

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Percent Solids: 92.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.5	U	68.7	12.5	ug/Kg	☆	07/20/24 11:33	07/22/24 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	82		30 - 164				07/20/24 11:33	07/22/24 20:24	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.8	2.69	mg/Kg	☆	07/23/24 13:01	07/25/24 03:45	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				07/23/24 13:01	07/25/24 03:45	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.29	J b	8.90	2.64	mg/Kg	☆	07/24/24 07:31	07/25/24 16:29	1
C28-C36	9.44	J b	17.9	9.01	mg/Kg	☆	07/24/24 07:31	07/25/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	93		50 - 126				07/24/24 07:31	07/25/24 16:29	1
2-Fluorobiphenyl	67		40 - 133				07/24/24 07:31	07/25/24 16:29	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0829	U	0.197	0.0829	ug/Kg	☆	07/29/24 08:34	07/30/24 15:53	1
Perfluorohexanesulfonic acid (PFHxS)	0.0212	U	0.197	0.0212	ug/Kg	☆	07/29/24 08:34	07/30/24 15:53	1
Perfluorooctanesulfonic acid (PFOS)	0.0276	U	0.197	0.0276	ug/Kg	☆	07/29/24 08:34	07/30/24 15:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	89.9		40 - 130				07/29/24 08:34	07/30/24 15:53	1
13C3 PFHxS	75.8		40 - 130				07/29/24 08:34	07/30/24 15:53	1
13C8 PFOS	71.0		40 - 130				07/29/24 08:34	07/30/24 15:53	1

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.861	b	0.842	0.0927	ug/Kg	☆	07/23/24 12:18	07/24/24 15:48	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.117		0.101	0.0605	mg/Kg	☆		07/25/24 00:05	1

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DBFM (53-142)	TOL (70-130)	BFB (68-152)	DCA (56-150)
860-78355-1	Cell17-Square 64-S-3-4-240716	90	98	96	104
860-78355-2	Cell17-Square 44-S-3-4-240716	89	96	97	104
860-78355-3	Cell17-Square 24-S-3-4-240716	93	97	96	108
860-78355-4	Cell17-Square 4-S-3-4-240716	88	97	96	109
LCS 860-170934/3	Lab Control Sample	87	99	95	100
LCSD 860-170934/4	Lab Control Sample Dup	86	100	96	101
MB 860-170934/7	Method Blank	86	97	96	104

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	DCA (63-144)					
860-78355-1	Cell17-Square 64-S-3-4-240716	99					
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	102					
860-78355-2	Cell17-Square 44-S-3-4-240716	98					
860-78355-3	Cell17-Square 24-S-3-4-240716	97					
860-78355-4	Cell17-Square 4-S-3-4-240716	98					
LCS 860-177046/3	Lab Control Sample	97					
LCSD 860-177046/4	Lab Control Sample Dup	94					
MB 860-177046/7	Method Blank	95					

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-78355-1	Cell17-Square 64-S-3-4-240716	40	46	23	34	36	74
860-78355-2	Cell17-Square 44-S-3-4-240716	41	47	22	35	38	80
860-78355-3	Cell17-Square 24-S-3-4-240716	50	62	21	48	48	76
860-78355-4	Cell17-Square 4-S-3-4-240716	52	61	17 X	45	48	76
LCS 860-171106/2-A	Lab Control Sample	109	129 X	143 X	116	118 X	112
LCSD 860-171106/3-A	Lab Control Sample Dup	111	130 X	152 X	119	121 X	123
MB 860-171106/1-A	Method Blank	79	82	100	91	78	87

Surrogate Legend

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78355-1

Project/Site: Chevron - Jal Land Farm Soils

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

TBP = 2,4,6-Tribromophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPP (30-164)
860-78355-1	Cell17-Square 64-S-3-4-240716	84
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	72
860-78355-1 MSD	Cell17-Square 64-S-3-4-240716	71
860-78355-2	Cell17-Square 44-S-3-4-240716	78
860-78355-3	Cell17-Square 24-S-3-4-240716	77
860-78355-4	Cell17-Square 4-S-3-4-240716	82
LCS 400-678504/2-A	Lab Control Sample	81
MB 400-678504/1-A	Method Blank	84

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)
860-78355-1	Cell17-Square 64-S-3-4-240716	102
860-78355-2	Cell17-Square 44-S-3-4-240716	104
860-78355-3	Cell17-Square 24-S-3-4-240716	100
860-78355-4	Cell17-Square 4-S-3-4-240716	97
LCS 860-177418/4	Lab Control Sample	97
LCSD 860-177418/5	Lab Control Sample Dup	99
MB 860-177418/7	Method Blank	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (50-126)	FBP (40-133)
860-78355-1	Cell17-Square 64-S-3-4-240716	95	53
860-78355-2	Cell17-Square 44-S-3-4-240716	96	81
860-78355-3	Cell17-Square 24-S-3-4-240716	93	68
860-78355-4	Cell17-Square 4-S-3-4-240716	93	67

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78355-1

Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (50-126)	FBP (40-133)
LCS 500-778072/2-A	Lab Control Sample	83	78
MB 500-778072/1-A	Method Blank	85	69
Surrogate Legend			
OTPH = o-Terphenyl (Surr)			
FBP = 2-Fluorobiphenyl			

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (35-135)	DCB1 (25-143)
860-78355-1	Cell17-Square 64-S-3-4-240716	85	75
860-78355-2	Cell17-Square 44-S-3-4-240716	86	79
860-78355-3	Cell17-Square 24-S-3-4-240716	101	96
860-78355-4	Cell17-Square 4-S-3-4-240716	78	77
LCS 860-171151/2-A	Lab Control Sample	93	101
LCSD 860-171151/3-A	Lab Control Sample Dup	95	103
MB 860-171151/1-A	Method Blank	102	104
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl (Surr)			

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (35-140)	DCB1 (37-142)
860-78355-1	Cell17-Square 64-S-3-4-240716	82	132
860-78355-2	Cell17-Square 44-S-3-4-240716	83	133
860-78355-3	Cell17-Square 24-S-3-4-240716	96	150 X
860-78355-4	Cell17-Square 4-S-3-4-240716	76	120
LCS 860-171151/4-A	Lab Control Sample	93	150 X
LCSD 860-171151/5-A	Lab Control Sample Dup	95	149 X
MB 860-171151/1-A	Method Blank	96	148 X
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl (Surr)			

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB1 (83-122)
860-78355-1	Cell17-Square 64-S-3-4-240716	106

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Surrogate Summary

Client: Arcadis U.S., Inc.

Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Matrix: Solid

Job ID: 860-78355-1

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	12DNB1 (83-122)
860-78355-2	Cell17-Square 44-S-3-4-240716	106
860-78355-2 MS	Cell17-Square 44-S-3-4-240716	104
860-78355-2 MSD	Cell17-Square 44-S-3-4-240716	104
860-78355-3	Cell17-Square 24-S-3-4-240716	106
860-78355-4	Cell17-Square 4-S-3-4-240716	106
LCS 280-661465/2-A	Lab Control Sample	105
MB 280-661465/1-A	Method Blank	107
Surrogate Legend		
12DNB = 1,2-Dinitrobenzene		

Isotope Dilution Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS**Matrix: Solid****Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	C8PFOA (40-130)	C3PFHS (40-130)	C8PFOS (40-130)
860-78355-1	Cell17-Square 64-S-3-4-240716	85.1	85.8	82.5
860-78355-2	Cell17-Square 44-S-3-4-240716	83.7	80.2	83.8
860-78355-3	Cell17-Square 24-S-3-4-240716	85.5	75.8	80.7
860-78355-4	Cell17-Square 4-S-3-4-240716	89.9	75.8	71.0
LCS 280-661733/3-A	Lab Control Sample	85.6	82.5	75.3
LCSD 280-661733/4-A	Lab Control Sample Dup	80.7	77.3	88.0
LLCS 280-661733/2-A	Lab Control Sample	85.8	77.2	75.4
MB 280-661733/1-A	Method Blank	81.1	76.6	91.0
Surrogate Legend				
C8PFOA = 13C8 PFOA				
C3PFHS = 13C3 PFHxS				
C8PFOS = 13C8 PFOS				

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-170934/7

Matrix: Solid

Analysis Batch: 170934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.45	U	50.0	5.45	ug/Kg			07/18/24 13:49	1
Acrylonitrile	7.96	U	20.0	7.96	ug/Kg			07/18/24 13:49	1
Benzene	0.383	U	1.00	0.383	ug/Kg			07/18/24 13:49	1
Bromodichloromethane	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
Tribromomethane	2.21	U	5.00	2.21	ug/Kg			07/18/24 13:49	1
Bromomethane	0.929	U	5.00	0.929	ug/Kg			07/18/24 13:49	1
Methyl tert-butyl ether	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
Carbon tetrachloride	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
Monochlorobenzene	0.623	U	5.00	0.623	ug/Kg			07/18/24 13:49	1
Chloroform	0.525	U	5.00	0.525	ug/Kg			07/18/24 13:49	1
Chloromethane	0.938	U	5.00	0.938	ug/Kg			07/18/24 13:49	1
1,2-Dibromoethane	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
1,2-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			07/18/24 13:49	1
1,3-Dichlorobenzene	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
1,4-Dichlorobenzene	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
Dichlorodifluoromethane	1.91	U	5.00	1.91	ug/Kg			07/18/24 13:49	1
1,1-Dichloroethane	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
1,2-Dichloroethane	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
1,1-Dichloroethene	0.573	U	5.00	0.573	ug/Kg			07/18/24 13:49	1
cis-1,2-Dichloroethene	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
trans-1,2-Dichloroethene	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
1,2-Dichloropropane	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
cis-1,3-Dichloropropene	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
trans-1,3-Dichloropropene	1.67	U	5.00	1.67	ug/Kg			07/18/24 13:49	1
1,1-Dichloropropene	0.515	U	5.00	0.515	ug/Kg			07/18/24 13:49	1
1,4-Dioxane	24.0	U	100	24.0	ug/Kg			07/18/24 13:49	1
Ethylbenzene	0.304	U	1.00	0.304	ug/Kg			07/18/24 13:49	1
Methylene Chloride	8.42	U	20.0	8.42	ug/Kg			07/18/24 13:49	1
Styrene	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
1,1,2,2-Tetrachloroethane	0.353	U	5.00	0.353	ug/Kg			07/18/24 13:49	1
Tetrachloroethene	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
Toluene	1.21	U	5.00	1.21	ug/Kg			07/18/24 13:49	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			07/18/24 13:49	1
1,2,4-Trichlorobenzene	1.01	U	5.00	1.01	ug/Kg			07/18/24 13:49	1
1,1,1-Trichloroethane	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
1,1,2-Trichloroethane	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
Trichloroethene	1.00	U	5.00	1.00	ug/Kg			07/18/24 13:49	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			07/18/24 13:49	1
Trichlorofluoromethane	1.78	U	5.00	1.78	ug/Kg			07/18/24 13:49	1
Vinyl chloride	0.624	U	5.00	0.624	ug/Kg			07/18/24 13:49	1
Xylenes, Total	0.433	U	2.00	0.433	ug/Kg			07/18/24 13:49	1
1,3-Dichloropropene, Total	1.67	U	5.00	1.67	ug/Kg			07/18/24 13:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	86		53 - 142		07/18/24 13:49	1
Toluene-d8 (Surr)	97		70 - 130		07/18/24 13:49	1
4-Bromofluorobenzene (Surr)	96		68 - 152		07/18/24 13:49	1
1,2-Dichloroethane-d4 (Surr)	104		56 - 150		07/18/24 13:49	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 860-170934/3

Matrix: Solid

Analysis Batch: 170934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	250	210.0		ug/Kg		84	50 - 150
Acrylonitrile	500	450.5		ug/Kg		90	50 - 150
Benzene	50.0	48.36		ug/Kg		97	66 - 142
Bromodichloromethane	50.0	52.56		ug/Kg		105	78 - 130
Tribromomethane	50.0	57.15		ug/Kg		114	63 - 136
Bromomethane	50.0	44.26		ug/Kg		89	60 - 140
Methyl tert-butyl ether	50.0	44.83		ug/Kg		90	64 - 148
Carbon tetrachloride	50.0	48.13		ug/Kg		96	63 - 135
Monochlorobenzene	50.0	48.45		ug/Kg		97	83 - 130
Chloroform	50.0	45.95		ug/Kg		92	74 - 130
Chloromethane	50.0	41.38		ug/Kg		83	58 - 130
1,2-Dibromoethane	50.0	51.73		ug/Kg		103	73 - 130
1,2-Dichlorobenzene	50.0	51.57		ug/Kg		103	84 - 130
1,3-Dichlorobenzene	50.0	51.04		ug/Kg		102	84 - 130
1,4-Dichlorobenzene	50.0	51.78		ug/Kg		104	82 - 130
Dichlorodifluoromethane	50.0	42.06		ug/Kg		84	54 - 130
1,1-Dichloroethane	50.0	45.85		ug/Kg		92	73 - 130
1,2-Dichloroethane	50.0	52.87		ug/Kg		106	70 - 130
1,1-Dichloroethene	50.0	46.82		ug/Kg		94	68 - 130
cis-1,2-Dichloroethene	50.0	46.20		ug/Kg		92	72 - 131
trans-1,2-Dichloroethene	50.0	40.09		ug/Kg		80	63 - 130
1,2-Dichloropropane	50.0	51.59		ug/Kg		103	75 - 130
cis-1,3-Dichloropropene	50.0	52.53		ug/Kg		105	74 - 135
trans-1,3-Dichloropropene	50.0	52.60		ug/Kg		105	73 - 130
1,1-Dichloropropene	50.0	47.47		ug/Kg		95	72 - 130
1,4-Dioxane	1000	1096		ug/Kg		110	65 - 135
Ethylbenzene	50.0	50.32		ug/Kg		101	80 - 130
Methylene Chloride	50.0	42.64		ug/Kg		85	57 - 134
Styrene	50.0	52.13		ug/Kg		104	80 - 130
1,1,2,2-Tetrachloroethane	50.0	49.34		ug/Kg		99	75 - 133
Tetrachloroethene	50.0	55.25		ug/Kg		110	79 - 130
Toluene	50.0	48.32		ug/Kg		97	74 - 130
m,p-Xylenes	0.0500	0.05007		mg/Kg		100	78 - 130
1,2,4-Trichlorobenzene	50.0	54.22		ug/Kg		108	79 - 130
1,1,1-Trichloroethane	50.0	49.13		ug/Kg		98	71 - 130
1,1,2-Trichloroethane	50.0	51.60		ug/Kg		103	75 - 131
Trichloroethene	50.0	51.94		ug/Kg		104	78 - 130
o-Xylene	0.0500	0.05049		mg/Kg		101	79 - 130
Trichlorofluoromethane	50.0	43.20		ug/Kg		86	71 - 148
Vinyl chloride	50.0	44.55		ug/Kg		89	60 - 130
Xylenes, Total	100	100.6		ug/Kg		101	70 - 130
1,3-Dichloropropene, Total	100	105.1		ug/Kg		105	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	87		53 - 142
Toluene-d8 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	95		68 - 152
1,2-Dichloroethane-d4 (Surr)	100		56 - 150

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 860-170934/4

Matrix: Solid

Analysis Batch: 170934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein	250	192.6		ug/Kg		77	50 - 150	9	25
Acrylonitrile	500	453.8		ug/Kg		91	50 - 150	1	25
Benzene	50.0	47.76		ug/Kg		96	66 - 142	1	25
Bromodichloromethane	50.0	50.85		ug/Kg		102	78 - 130	3	25
Tribromomethane	50.0	56.40		ug/Kg		113	63 - 136	1	25
Bromomethane	50.0	38.71		ug/Kg		77	60 - 140	13	25
Methyl tert-butyl ether	50.0	44.10		ug/Kg		88	64 - 148	2	25
Carbon tetrachloride	50.0	45.83		ug/Kg		92	63 - 135	5	25
Monochlorobenzene	50.0	46.92		ug/Kg		94	83 - 130	3	25
Chloroform	50.0	44.14		ug/Kg		88	74 - 130	4	25
Chloromethane	50.0	47.26		ug/Kg		95	58 - 130	13	25
1,2-Dibromoethane	50.0	51.12		ug/Kg		102	73 - 130	1	25
1,2-Dichlorobenzene	50.0	50.12		ug/Kg		100	84 - 130	3	25
1,3-Dichlorobenzene	50.0	50.18		ug/Kg		100	84 - 130	2	25
1,4-Dichlorobenzene	50.0	49.70		ug/Kg		99	82 - 130	4	25
Dichlorodifluoromethane	50.0	42.96		ug/Kg		86	54 - 130	2	25
1,1-Dichloroethane	50.0	44.63		ug/Kg		89	73 - 130	3	25
1,2-Dichloroethane	50.0	51.71		ug/Kg		103	70 - 130	2	25
1,1-Dichloroethene	50.0	44.66		ug/Kg		89	68 - 130	5	25
cis-1,2-Dichloroethene	50.0	44.89		ug/Kg		90	72 - 131	3	25
trans-1,2-Dichloroethene	50.0	38.37		ug/Kg		77	63 - 130	4	25
1,2-Dichloropropane	50.0	51.53		ug/Kg		103	75 - 130	0	25
cis-1,3-Dichloropropene	50.0	50.87		ug/Kg		102	74 - 135	3	25
trans-1,3-Dichloropropene	50.0	51.12		ug/Kg		102	73 - 130	3	25
1,1-Dichloropropene	50.0	45.71		ug/Kg		91	72 - 130	4	25
1,4-Dioxane	1000	1112		ug/Kg		111	65 - 135	1	25
Ethylbenzene	50.0	49.21		ug/Kg		98	80 - 130	2	25
Methylene Chloride	50.0	40.80		ug/Kg		82	57 - 134	4	25
Styrene	50.0	50.64		ug/Kg		101	80 - 130	3	25
1,1,2,2-Tetrachloroethane	50.0	49.85		ug/Kg		100	75 - 133	1	25
Tetrachloroethene	50.0	53.72		ug/Kg		107	79 - 130	3	25
Toluene	50.0	46.57		ug/Kg		93	74 - 130	4	25
m,p-Xylenes	0.0500	0.04808		mg/Kg		96	78 - 130	4	25
1,2,4-Trichlorobenzene	50.0	52.63		ug/Kg		105	79 - 130	3	25
1,1,1-Trichloroethane	50.0	47.46		ug/Kg		95	71 - 130	3	25
1,1,2-Trichloroethane	50.0	51.16		ug/Kg		102	75 - 131	1	25
Trichloroethene	50.0	51.63		ug/Kg		103	78 - 130	1	25
o-Xylene	0.0500	0.04887		mg/Kg		98	79 - 130	3	25
Trichlorofluoromethane	50.0	42.44		ug/Kg		85	71 - 148	2	25
Vinyl chloride	50.0	44.99		ug/Kg		90	60 - 130	1	25
Xylenes, Total	100	96.95		ug/Kg		97	70 - 130	4	25
1,3-Dichloropropene, Total	100	102.0		ug/Kg		102	60 - 140	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	86		53 - 142
Toluene-d8 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	96		68 - 152
1,2-Dichloroethane-d4 (Surr)	101		56 - 150

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 860-78355-1 MS

Matrix: Solid

Analysis Batch: 177046

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 176998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane (P-Dioxane)	0.00249	U H	0.0501	0.08845	N1	mg/Kg		177	65 - 135
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	102		63 - 144						

Lab Sample ID: MB 860-177046/7

Matrix: Solid

Analysis Batch: 177046

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U	0.00500	0.00250	mg/Kg	-		07/23/24 14:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 144					07/23/24 14:01	1

Lab Sample ID: LCS 860-177046/3

Matrix: Solid

Analysis Batch: 177046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane (P-Dioxane)	0.0500	0.06303		mg/Kg		126	65 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	97		63 - 144				

Lab Sample ID: LCSD 860-177046/4

Matrix: Solid

Analysis Batch: 177046

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)	0.0500	0.05638		mg/Kg		113	65 - 135	11	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	94		63 - 144						

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-171106/1-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-171106/1-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 04:36	07/22/24 11:08	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-171106/1-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171106

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	NR		ug/mL		4.02	542-88-1	07/19/24 04:36	07/22/24 11:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		30 - 115				07/19/24 04:36	07/22/24 11:08	1
2-Fluorophenol	82		25 - 121				07/19/24 04:36	07/22/24 11:08	1
2,4,6-Tribromophenol	100		19 - 122				07/19/24 04:36	07/22/24 11:08	1
Nitrobenzene-d5	91		23 - 129				07/19/24 04:36	07/22/24 11:08	1
Phenol-d5 (Surr)	78		24 - 113				07/19/24 04:36	07/22/24 11:08	1
p-Terphenyl-d14 (Surr)	87		18 - 137				07/19/24 04:36	07/22/24 11:08	1

Lab Sample ID: LCS 860-171106/2-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1144		ug/Kg		86	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1213		ug/Kg		91	35 - 135
1-Methylnaphthalene	1330	1130		ug/Kg		85	38 - 127
bis (2-chloroisopropyl) ether	1330	1124		ug/Kg		84	25 - 124
2,4,5-Trichlorophenol	1330	1267		ug/Kg		95	40 - 135
2,4,6-Trichlorophenol	1330	1235		ug/Kg		93	39 - 139
2,4-Dinitrotoluene	1330	1242		ug/Kg		93	48 - 131
Dinitrophenols	1330	1560		ug/Kg		117	19 - 131
2,4-Dichlorophenol	1330	1155		ug/Kg		87	36 - 135
2,6-Dinitrotoluene	1330	1223		ug/Kg		92	42 - 136
Dichlorobenzidine, 3,3'-	1330	914.1		ug/Kg		69	35 - 134
4,6-Dinitro-2-methylphenol	1330	1566		ug/Kg		117	30 - 146
Acenaphthene	1330	1131		ug/Kg		85	37 - 131
Anthracene	1330	1182		ug/Kg		89	39 - 139
Acenaphthylene	1330	1167		ug/Kg		88	39 - 129
Benzo[a]anthracene	1330	1168		ug/Kg		88	44 - 135
Benzo[b]fluoranthene	1330	1139		ug/Kg		85	40 - 153
Benzo[k]fluoranthene	1330	1181		ug/Kg		89	33 - 156
Benzo[g,h,i]perylene	1330	1299		ug/Kg		97	40 - 153
Benzo[a]pyrene	1330	1201		ug/Kg		90	43 - 153
Di (2-ethylhexyl)phthalate	1330	1211		ug/Kg		91	46 - 145
Bis(2-chloroethyl)ether	1330	1162		ug/Kg		87	33 - 127
Chrysene	1330	1200		ug/Kg		90	42 - 135
Dibutylphthalate	1330	1203		ug/Kg		90	43 - 142
Dibenz(a,h)anthracene	1330	1301		ug/Kg		98	41 - 155
Diethyl phthalate	1330	1204		ug/Kg		90	45 - 131
Dimethyl phthalate	1330	1130		ug/Kg		85	43 - 132
Fluoranthene	1330	1192		ug/Kg		89	41 - 138
Fluorene	1330	1106		ug/Kg		83	41 - 131
Hexachlorobenzene	1330	1273		ug/Kg		96	36 - 142
Hexachlorobutadiene	1330	1187		ug/Kg		89	35 - 129
Hexachlorocyclopentadiene	1330	688.6		ug/Kg		52	16 - 106

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-171106/2-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	1330	1194		ug/Kg		90	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1035		ug/Kg		78	39 - 154
Isophorone	1330	1059		ug/Kg		79	36 - 128
N-Nitrosodi-n-butylamine	1330	1069		ug/Kg		80	34 - 135
N-Nitrosodiethylamine	1330	1253		ug/Kg		94	36 - 127
N-Nitrosodiphenylamine	1330	1188		ug/Kg		89	27 - 155
N-Nitrosopyrrolidine	1330	1278		ug/Kg		96	38 - 136
Pentachlorobenzene	1330	1291		ug/Kg		97	38 - 136
Pentachlorophenol	1330	1153		ug/Kg		87	14 - 148
Phenanthrene	1330	1147		ug/Kg		86	37 - 139
Pyrene	1330	1126		ug/Kg		84	42 - 138
Naphthalene	1330	1207		ug/Kg		91	35 - 128
2-Methylnaphthalene	1330	1153		ug/Kg		87	36 - 126
Nitrobenzene	1330	1156		ug/Kg		87	32 - 129
Benzidine	1330	406.3		ug/Kg		30	12 - 112
Phenol	1.33	1.252		mg/Kg		94	34 - 127
N-Nitrosodimethylamine	1330	1056		ug/Kg		79	27 - 126
Atrazine	1330	1247		ug/Kg		94	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	1101		ug/Kg		83	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	109		30 - 115
2-Fluorophenol	129	X	25 - 121
2,4,6-Tribromophenol	143	X	19 - 122
Nitrobenzene-d5	116		23 - 129
Phenol-d5 (Surr)	118	X	24 - 113
p-Terphenyl-d14 (Surr)	112		18 - 137

Lab Sample ID: LCSD 860-171106/3-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	1203		ug/Kg		90	20 - 157	5	30
1,2,4,5-Tetrachlorobenzene	1330	1247		ug/Kg		93	35 - 135	3	30
1-Methylnaphthalene	1330	1142		ug/Kg		86	38 - 127	1	30
bis (2-chloroisopropyl) ether	1330	1136		ug/Kg		85	25 - 124	1	30
2,4,5-Trichlorophenol	1330	1306		ug/Kg		98	40 - 135	3	30
2,4,6-Trichlorophenol	1330	1296		ug/Kg		97	39 - 139	5	30
2,4-Dinitrotoluene	1330	1290		ug/Kg		97	48 - 131	4	30
Dinitrophenols	1330	1638		ug/Kg		123	19 - 131	5	40
2,4-Dichlorophenol	1330	1189		ug/Kg		89	36 - 135	3	30
2,6-Dinitrotoluene	1330	1256		ug/Kg		94	42 - 136	3	30
Dichlorobenzidine, 3,3'	1330	937.1		ug/Kg		70	35 - 134	2	40
4,6-Dinitro-2-methylphenol	1330	1646		ug/Kg		123	30 - 146	5	40
Acenaphthene	1330	1182		ug/Kg		89	37 - 131	4	30
Anthracene	1330	1234		ug/Kg		93	39 - 139	4	30

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-171106/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 175237				Prep Batch: 171106							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Acenaphthylene			1330	1188		ug/Kg		89	39 - 129	2	30
Benzo[a]anthracene			1330	1223		ug/Kg		92	44 - 135	5	30
Benzo[b]fluoranthene			1330	1234		ug/Kg		93	40 - 153	8	30
Benzo[k]fluoranthene			1330	1224		ug/Kg		92	33 - 156	4	30
Benzo[g,h,i]perylene			1330	1371		ug/Kg		103	40 - 153	5	30
Benzo[a]pyrene			1330	1256		ug/Kg		94	43 - 153	4	30
Di (2-ethylhexyl)phthalate			1330	1303		ug/Kg		98	46 - 145	7	30
Bis(2-chloroethyl)ether			1330	1151		ug/Kg		86	33 - 127	1	30
Chrysene			1330	1253		ug/Kg		94	42 - 135	4	30
Dibutylphthalate			1330	1285		ug/Kg		96	43 - 142	7	30
Dibenz(a,h)anthracene			1330	1385		ug/Kg		104	41 - 155	6	30
Diethyl phthalate			1330	1243		ug/Kg		93	45 - 131	3	30
Dimethyl phthalate			1330	1172		ug/Kg		88	43 - 132	4	30
Fluoranthene			1330	1231		ug/Kg		92	41 - 138	3	30
Fluorene			1330	1152		ug/Kg		86	41 - 131	4	30
Hexachlorobenzene			1330	1331		ug/Kg		100	36 - 142	4	30
Hexachlorobutadiene			1330	1204		ug/Kg		90	35 - 129	1	30
Hexachlorocyclopentadiene			1330	791.2		ug/Kg		59	16 - 106	14	30
Hexachloroethane			1330	1247		ug/Kg		94	36 - 121	4	30
Indeno[1,2,3-cd]pyrene			1330	1121		ug/Kg		84	39 - 154	8	30
Isophorone			1330	1065		ug/Kg		80	36 - 128	1	30
N-Nitrosodi-n-butylamine			1330	1056		ug/Kg		79	34 - 135	1	30
N-Nitrosodiethylamine			1330	1275		ug/Kg		96	36 - 127	2	30
N-Nitrosodiphenylamine			1330	1230		ug/Kg		92	27 - 155	3	30
N-Nitrosopyrrolidine			1330	1316		ug/Kg		99	38 - 136	3	30
Pentachlorobenzene			1330	1326		ug/Kg		99	38 - 136	3	30
Pentachlorophenol			1330	1205		ug/Kg		90	14 - 148	4	40
Phenanthrene			1330	1185		ug/Kg		89	37 - 139	3	30
Pyrene			1330	1232		ug/Kg		92	42 - 138	9	30
Naphthalene			1330	1220		ug/Kg		92	35 - 128	1	30
2-Methylnaphthalene			1330	1149		ug/Kg		86	36 - 126	0	30
Nitrobenzene			1330	1164		ug/Kg		87	32 - 129	1	30
Benzidine			1330	450.5		ug/Kg		34	12 - 112	10	40
Phenol			1.33	1.275		mg/Kg		96	34 - 127	2	40
N-Nitrosodimethylamine			1330	1029		ug/Kg		77	27 - 126	3	30
Atrazine			1330	1306		ug/Kg		98	18 - 134	5	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	1105		ug/Kg		83	30 - 140	0	30

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-678504/1-A

Matrix: Solid

Analysis Batch: 678632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 678504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		07/20/24 11:32	07/22/24 16:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	84		30 - 164				07/20/24 11:32	07/22/24 16:52	1

Lab Sample ID: LCS 400-678504/2-A

Matrix: Solid

Analysis Batch: 678632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 678504

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Prometon		333	270.2		ug/Kg		81	40 - 140	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Triphenylphosphate	81		30 - 164						

Lab Sample ID: 860-78355-1 MS

Matrix: Solid

Analysis Batch: 678632

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 678504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Prometon	12.0	U	339	237.6		ug/Kg	✖	70	40 - 140	
Surrogate	MS %Recovery	MS Qualifier	Limits							
Triphenylphosphate	72		30 - 164							

Lab Sample ID: 860-78355-1 MSD

Matrix: Solid

Analysis Batch: 678632

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 678504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Prometon	12.0	U	340	261.6		ug/Kg	✖	77	40 - 140	10	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Triphenylphosphate	71		30 - 164								

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-177418/7

Matrix: Solid

Analysis Batch: 177418

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			07/25/24 01:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130					07/25/24 01:32	1

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 860-177418/4

Matrix: Solid

Analysis Batch: 177418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS			%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
C4-C12			1.00	0.7507		mg/Kg		75	70 - 130	
Surrogate	LCS	LCS								
	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	97		70 - 130							

Lab Sample ID: LCSD 860-177418/5

Matrix: Solid

Analysis Batch: 177418

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C4-C12			1.00	0.7372		mg/Kg	-	74	70 - 130	2	30
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		70 - 130								

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-778072/1-A

Matrix: Solid

Analysis Batch: 778359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 778072

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C28	5.060	J	8.30	2.46	mg/Kg		07/24/24 07:31	07/25/24 13:17	1
C28-C36	11.04	J	16.7	8.40	mg/Kg		07/24/24 07:31	07/25/24 13:17	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
o-Terphenyl (Surr)	85		50 - 126				07/24/24 07:31	07/25/24 13:17	1
2-Fluorobiphenyl	69		40 - 133				07/24/24 07:31	07/25/24 13:17	1

Lab Sample ID: LCS 500-778072/2-A

Matrix: Solid

Analysis Batch: 778359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 778072

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			66.7	69.79		mg/Kg		105	60 - 125		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
	o-Terphenyl (Surr)	83	50 - 126								
	2-Fluorobiphenyl	78	40 - 133								

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-171151/1-A

Matrix: Solid

Analysis Batch: 176812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		07/19/24 09:45	07/23/24 11:32	1

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-171151/1-A

Matrix: Solid

Analysis Batch: 176812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.187	U	0.833	0.187	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Hexachlorocyclohexane, alpha-	0.163	U	0.833	0.163	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Hexachlorocyclohexane, beta-	0.155	U	0.833	0.155	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Chlordane (technical)	12.1	U	41.7	12.1	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Hexachlorocyclohexane, delta-	0.343	U	0.833	0.343	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endosulfan II	0.247	U	0.833	0.247	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endrin	0.291	U	0.833	0.291	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Hexachlorocyclohexane, gamma-	0.158	U	0.833	0.158	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Heptachlor	0.215	U	0.833	0.215	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Heptachlor epoxide	0.183	U	0.833	0.183	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Toxaphene	9.78	U	16.7	9.78	ug/Kg		07/19/24 09:45	07/23/24 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		35 - 135	07/19/24 09:45	07/23/24 11:32	1
DCB Decachlorobiphenyl (Surr)	104		25 - 143	07/19/24 09:45	07/23/24 11:32	1

Lab Sample ID: LCS 860-171151/2-A

Matrix: Solid

Analysis Batch: 176812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DDT	16.7	13.54		ug/Kg		81	13 - 192
Aldrin	16.7	14.95		ug/Kg		90	30 - 152
Hexachlorocyclohexane, alpha-	16.7	15.30		ug/Kg		92	29 - 160
Hexachlorocyclohexane, beta-	16.7	16.76		ug/Kg		101	30 - 155
Hexachlorocyclohexane, delta-	16.7	9.928		ug/Kg		60	20 - 161
Dieldrin	16.7	15.66		ug/Kg		94	33 - 153
Endosulfan I	16.7	16.31		ug/Kg		98	30 - 151
Endosulfan II	16.7	16.30		ug/Kg		98	27 - 153
Endosulfan sulfate	16.7	14.12		ug/Kg		85	15 - 170
Endrin	16.7	14.82		ug/Kg		89	25 - 162
Endrin aldehyde	16.7	15.39		ug/Kg		92	49 - 117
Hexachlorocyclohexane, gamma-	16.7	16.26		ug/Kg		98	30 - 158
Heptachlor	16.7	13.60		ug/Kg		82	29 - 163
Heptachlor epoxide	16.7	15.83		ug/Kg		95	30 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	93		35 - 135
DCB Decachlorobiphenyl (Surr)	101		25 - 143

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-171151/3-A

Matrix: Solid

Analysis Batch: 176812

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DDT	16.7	13.08		ug/Kg		78	13 - 192	3	25
Aldrin	16.7	15.15		ug/Kg		91	30 - 152	1	25
Hexachlorocyclohexane, alpha-	16.7	15.50		ug/Kg		93	29 - 160	1	25
Hexachlorocyclohexane, beta-	16.7	16.21		ug/Kg		97	30 - 155	3	25
Hexachlorocyclohexane, delta-	16.7	9.697		ug/Kg		58	20 - 161	2	25
Dieldrin	16.7	15.37		ug/Kg		92	33 - 153	2	25
Endosulfan I	16.7	16.65		ug/Kg		100	30 - 151	2	25
Endosulfan II	16.7	16.26		ug/Kg		98	27 - 153	0	25
Endosulfan sulfate	16.7	14.45		ug/Kg		87	15 - 170	2	25
Endrin	16.7	14.58		ug/Kg		87	25 - 162	2	25
Endrin aldehyde	16.7	15.62		ug/Kg		94	49 - 117	2	25
Hexachlorocyclohexane, gamma-	16.7	16.11		ug/Kg		97	30 - 158	1	25
Heptachlor	16.7	13.53		ug/Kg		81	29 - 163	1	25
Heptachlor epoxide	16.7	16.11		ug/Kg		97	30 - 150	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	95		35 - 135
DCB Decachlorobiphenyl (Surr)	103		25 - 143

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-171151/1-A

Matrix: Solid

Analysis Batch: 171128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 14:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		35 - 140	07/19/24 09:45	07/19/24 14:38	1
DCB Decachlorobiphenyl (Surr)	148	X	37 - 142	07/19/24 09:45	07/19/24 14:38	1

Lab Sample ID: LCS 860-171151/4-A

Matrix: Solid

Analysis Batch: 171128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.167	0.1616		mg/Kg		97	27 - 121
Aroclor 1260	0.167	0.2094		mg/Kg		126	27 - 139

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-171151/4-A

Matrix: Solid

Analysis Batch: 171128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171151

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	93		35 - 140
DCB Decachlorobiphenyl (Surr)	150	X	37 - 142

Lab Sample ID: LCSD 860-171151/5-A

Matrix: Solid

Analysis Batch: 171128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.167	0.1627		mg/Kg		98	27 - 121	1	20
Aroclor 1260	0.167	0.2089		mg/Kg		125	27 - 139	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	95		35 - 140
DCB Decachlorobiphenyl (Surr)	149	X	37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-661465/1-A

Matrix: Solid

Analysis Batch: 661573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 661465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.100	0.0227	mg/Kg		07/23/24 18:08	07/25/24 00:14	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		07/23/24 18:08	07/25/24 00:14	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		07/23/24 18:08	07/25/24 00:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	107		83 - 122	07/23/24 18:08	07/25/24 00:14	1

Lab Sample ID: LCS 280-661465/2-A

Matrix: Solid

Analysis Batch: 661573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	1.00	0.9106		mg/Kg		91	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9501		mg/Kg		95	80 - 124
2,4,6-Trinitrotoluene	1.00	1.039		mg/Kg		104	80 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dinitrobenzene	105		83 - 122

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-78355-2 MS

Matrix: Solid

Analysis Batch: 661573

Client Sample ID: Cell17-Square 44-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 661465

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0217	U	0.930	0.8018		mg/Kg		86	80 - 120		
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0412	U	0.930	0.8483		mg/Kg		91	80 - 124		
2,4,6-Trinitrotoluene	0.0294	U	0.930	0.9450		mg/Kg		102	80 - 120		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1,2-Dinitrobenzene	104		83 - 122								

Lab Sample ID: 860-78355-2 MSD

Matrix: Solid

Analysis Batch: 661573

Client Sample ID: Cell17-Square 44-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 661465

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0217	U	0.946	0.8515		mg/Kg		90	80 - 120	6	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0412	U	0.946	0.8649		mg/Kg		91	80 - 124	2	30
2,4,6-Trinitrotoluene	0.0294	U	0.946	0.9700		mg/Kg		103	80 - 120	3	30
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
1,2-Dinitrobenzene	104		83 - 122								

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-170779/1-A

Matrix: Solid

Analysis Batch: 170994

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		07/17/24 15:14	07/19/24 03:11	1
Nitrate as N	0.692	U	1.00	0.692	mg/Kg		07/17/24 15:14	07/19/24 03:11	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		07/17/24 15:14	07/19/24 03:11	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/17/24 15:14	07/19/24 03:11	1
Nitrate Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/17/24 15:14	07/19/24 03:11	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		07/17/24 15:14	07/19/24 03:11	1

Lab Sample ID: MB 860-170779/1-A

Matrix: Solid

Analysis Batch: 170994

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		07/17/24 15:14	07/19/24 17:00	1
Nitrate as N	0.692	U	1.00	0.692	mg/Kg		07/17/24 15:14	07/19/24 17:00	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		07/17/24 15:14	07/19/24 17:00	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/17/24 15:14	07/19/24 17:00	1
Nitrate Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/17/24 15:14	07/19/24 17:00	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		07/17/24 15:14	07/19/24 17:00	1

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-170779/2-A

Matrix: Solid

Analysis Batch: 170994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	100.5		mg/Kg		101	90 - 110
Nitrate as N	100	105.9		mg/Kg		106	90 - 110
Fluoride	100	107.7		mg/Kg		108	90 - 110
Nitrite as N	100	99.06		mg/Kg		99	90 - 110
Sulfate	100	101.9		mg/Kg		102	90 - 110

Lab Sample ID: LCS 860-170779/2-A

Matrix: Solid

Analysis Batch: 170994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	101.2		mg/Kg		101	90 - 110
Nitrate as N	100	106.7		mg/Kg		107	90 - 110
Fluoride	100	107.8		mg/Kg		108	90 - 110
Nitrite as N	100	99.31		mg/Kg		99	90 - 110
Sulfate	100	102.6		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 860-170779/3-A

Matrix: Solid

Analysis Batch: 170994

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170779

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	102.1		mg/Kg		102	90 - 110	2	20
Nitrate as N	100	107.6		mg/Kg		108	90 - 110	2	20
Fluoride	100	109.4		mg/Kg		109	90 - 110	2	20
Nitrite as N	100	100.6		mg/Kg		101	90 - 110	2	20
Sulfate	100	103.6		mg/Kg		104	90 - 110	2	20

Lab Sample ID: LCSD 860-170779/3-A

Matrix: Solid

Analysis Batch: 170994

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170779

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100.5		mg/Kg		101	90 - 110	1	20
Nitrate as N	100	106.0		mg/Kg		106	90 - 110	1	20
Fluoride	100	107.2		mg/Kg		107	90 - 110	1	20
Nitrite as N	100	98.71		mg/Kg		99	90 - 110	1	20
Sulfate	100	101.9		mg/Kg		102	90 - 110	1	20

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 280-661733/1-A

Matrix: Solid

Analysis Batch: 662229

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 661733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0844	U	0.200	0.0844	ug/Kg		07/29/24 08:34	07/30/24 10:22	1
Perfluorohexanesulfonic acid (PFHxS)	0.0216	U	0.200	0.0216	ug/Kg		07/29/24 08:34	07/30/24 10:22	1
Perfluorooctanesulfonic acid (PFOS)	0.0281	U	0.200	0.0281	ug/Kg		07/29/24 08:34	07/30/24 10:22	1

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOA	81.1		40 - 130	07/29/24 08:34	07/30/24 10:22	1
13C3 PFHxS	76.6		40 - 130	07/29/24 08:34	07/30/24 10:22	1
13C8 PFOS	91.0		40 - 130	07/29/24 08:34	07/30/24 10:22	1

Lab Sample ID: LCS 280-661733/3-A

Matrix: Solid

Analysis Batch: 662229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	1.25	1.659		ug/Kg		133	70 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.14	1.221		ug/Kg		107	60 - 150
Perfluorooctanesulfonic acid (PFOS)	1.16	1.290		ug/Kg		111	65 - 160

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C8 PFOA	85.6		40 - 130
13C3 PFHxS	82.5		40 - 130
13C8 PFOS	75.3		40 - 130

Lab Sample ID: LCSD 280-661733/4-A

Matrix: Solid

Analysis Batch: 662229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 661733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	1.25	1.380		ug/Kg		110	70 - 150	18	30
Perfluorohexanesulfonic acid (PFHxS)	1.14	1.246		ug/Kg		109	60 - 150	2	30
Perfluorooctanesulfonic acid (PFOS)	1.16	1.145		ug/Kg		98	65 - 160	12	30

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C8 PFOA	80.7		40 - 130
13C3 PFHxS	77.3		40 - 130
13C8 PFOS	88.0		40 - 130

Lab Sample ID: LLCS 280-661733/2-A

Matrix: Solid

Analysis Batch: 662229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661733

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	0.250	0.3098		ug/Kg		124	70 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.2658		ug/Kg		117	60 - 150
Perfluorooctanesulfonic acid (PFOS)	0.233	0.2738		ug/Kg		118	65 - 160

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C8 PFOA	85.8		40 - 130
13C3 PFHxS	77.2		40 - 130
13C8 PFOS	75.4		40 - 130

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 280-661391/1-A

Matrix: Solid

Analysis Batch: 661524

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 661391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.3200	J	0.800	0.0880	ug/Kg		07/23/24 12:18	07/24/24 14:37	1

Lab Sample ID: LCS 280-661391/2-A

Matrix: Solid

Analysis Batch: 661524

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	0.800	0.9037		ug/Kg		113	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-177904/1-A

Matrix: Solid

Analysis Batch: 178469

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 177904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0478	U	0.200	0.0478	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Arsenic	0.103	U	0.400	0.103	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Barium	0.137	U	0.400	0.137	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Beryllium	0.0506	U	0.200	0.0506	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Cadmium	0.0534	U	0.200	0.0534	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Chromium	0.0540	U	0.400	0.0540	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Copper	0.116	U	0.400	0.116	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Iron	0.824	U	2.00	0.824	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Manganese	0.0427	U	0.200	0.0427	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Lead	0.0634	U	0.200	0.0634	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Antimony	0.213	U	0.400	0.213	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Selenium	0.0945	U	0.200	0.0945	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Thallium	0.0539	U	0.200	0.0539	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Uranium	0.0281	U	0.100	0.0281	mg/Kg		07/26/24 16:59	07/30/24 10:55	1
Zinc	0.117	U	0.400	0.117	mg/Kg		07/26/24 16:59	07/30/24 10:55	1

Lab Sample ID: LCS 860-177904/2-A

Matrix: Solid

Analysis Batch: 178469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 177904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	5.00	4.896		mg/Kg		98	80 - 120
Arsenic	10.0	9.710		mg/Kg		97	80 - 120
Barium	10.0	9.531		mg/Kg		95	80 - 120
Beryllium	10.0	9.615		mg/Kg		96	80 - 120
Cadmium	10.0	9.482		mg/Kg		95	80 - 120
Chromium	10.0	9.743		mg/Kg		97	80 - 120
Copper	10.0	9.543		mg/Kg		95	80 - 120
Iron	50.0	49.73		mg/Kg		99	80 - 120
Manganese	10.0	9.732		mg/Kg		97	80 - 120
Lead	10.0	9.613		mg/Kg		96	80 - 120
Antimony	10.0	9.147		mg/Kg		91	80 - 120
Selenium	10.0	9.555		mg/Kg		96	80 - 120

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-177904/2-A

Matrix: Solid

Analysis Batch: 178469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 177904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	10.0	9.838		mg/Kg		98	80 - 120
Uranium	2.49	2.395		mg/Kg		96	80 - 120
Zinc	10.0	9.590		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-177904/3-A

Matrix: Solid

Analysis Batch: 178469

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 177904

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	5.00	4.877		mg/Kg		98	80 - 120	0	20
Arsenic	10.0	9.781		mg/Kg		98	80 - 120	1	20
Barium	10.0	9.528		mg/Kg		95	80 - 120	0	20
Beryllium	10.0	9.460		mg/Kg		95	80 - 120	2	20
Cadmium	10.0	9.499		mg/Kg		95	80 - 120	0	20
Chromium	10.0	9.765		mg/Kg		98	80 - 120	0	20
Copper	10.0	9.610		mg/Kg		96	80 - 120	1	20
Iron	50.0	49.94		mg/Kg		100	80 - 120	0	20
Manganese	10.0	9.704		mg/Kg		97	80 - 120	0	20
Lead	10.0	9.621		mg/Kg		96	80 - 120	0	20
Antimony	10.0	9.414		mg/Kg		94	80 - 120	3	20
Selenium	10.0	9.742		mg/Kg		97	80 - 120	2	20
Thallium	10.0	9.837		mg/Kg		98	80 - 120	0	20
Uranium	2.49	2.412		mg/Kg		97	80 - 120	1	20
Zinc	10.0	9.649		mg/Kg		96	80 - 120	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 860-177254/10-A

Matrix: Solid

Analysis Batch: 177450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 177254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		07/24/24 09:45	07/24/24 18:36	1

Lab Sample ID: LCS 860-177254/11-A

Matrix: Solid

Analysis Batch: 177450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 177254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	0.1869		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-177254/12-A

Matrix: Solid

Analysis Batch: 177450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 177254

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	0.1864		mg/Kg		93	80 - 120	0	20

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 860-78355-1 MS

Matrix: Solid

Analysis Batch: 177450

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 177254

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00829	U	0.192	0.1807		mg/Kg		94	75 - 125

Lab Sample ID: 860-78355-1 MSD

Matrix: Solid

Analysis Batch: 177450

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 177254

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00829	U	0.192	0.1811		mg/Kg		94	75 - 125	0	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-170959/17-A

Matrix: Solid

Analysis Batch: 171068

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170959

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		07/18/24 11:52	07/18/24 16:36	1

Lab Sample ID: MB 860-170959/4-A

Matrix: Solid

Analysis Batch: 171068

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 170959

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		07/18/24 11:52	07/18/24 16:23	1

Lab Sample ID: LCS 860-170959/5-A

Matrix: Solid

Analysis Batch: 171068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170959

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	96.23		ug/Kg		96	90 - 110

Lab Sample ID: LCSD 860-170959/19-A

Matrix: Solid

Analysis Batch: 171068

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 170959

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	100	97.68		ug/Kg		98	90 - 110	2	20

Lab Sample ID: LLCS 860-170959/6-A

Matrix: Solid

Analysis Batch: 171068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 170959

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	5.00	3.536	J	ug/Kg		71	

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 860-78355-1 MS

Matrix: Solid

Analysis Batch: 171068

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 170959

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	32.3	J	1180	497.9	N1	ug/Kg		40	90 - 110

Lab Sample ID: 860-78355-1 MSD

Matrix: Solid

Analysis Batch: 171068

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 170959

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	32.3	J	1200	448.6	N1	ug/Kg		35	90 - 110	10	20

Method: 9045D - pH

Lab Sample ID: 860-78355-4 DU

Matrix: Solid

Analysis Batch: 177449

Client Sample ID: Cell17-Square 4-S-3-4-240716

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.8	HF	8.8		SU		0.1	20

Lab Sample ID: 860-78355-4 DU

Matrix: Solid

Analysis Batch: 177552

Client Sample ID: Cell17-Square 4-S-3-4-240716

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.7	HF	8.8		SU		0.1	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-177365/1-A

Matrix: Solid

Analysis Batch: 177489

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg			07/24/24 23:41	1

Lab Sample ID: LCS 860-177365/2-A

Matrix: Solid

Analysis Batch: 177489

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	1.00	1.004		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 860-177365/3-A

Matrix: Solid

Analysis Batch: 177489

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
Phenols, Total	1.00	1.023		mg/Kg		102	90 - 110	2	20

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 860-78355-1 MS

Matrix: Solid

Analysis Batch: 177489

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.0686	U	1.09	1.059		mg/Kg	✱	97	90 - 110

Lab Sample ID: 860-78355-1 MSD

Matrix: Solid

Analysis Batch: 177489

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.0686	U	0.978	1.060		mg/Kg	✱	108	90 - 110	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-178422/1

Matrix: Solid

Analysis Batch: 178422

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			07/30/24 10:18	1

Lab Sample ID: LCS 860-178422/2

Matrix: Solid

Analysis Batch: 178422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1027		mg/L		103	80 - 120

Lab Sample ID: LB 860-172404/1-A

Matrix: Solid

Analysis Batch: 178422

Client Sample ID: Method Blank

Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			07/30/24 10:18	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-671999/1-A

Matrix: Solid

Analysis Batch: 674896

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 671999

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05664	U	0.0507	0.0510	1.00	0.299	pCi/g	07/23/24 14:27	08/13/24 13:17	1
Radium-228	-0.1406	U	0.177	0.177		0.350	pCi/g	07/23/24 14:27	08/13/24 13:17	1
Combined Radium 226 + 228	-0.08394	U	0.184	0.184		0.350	pCi/g	07/23/24 14:27	08/13/24 13:17	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-671999/2-A

Matrix: Solid

Analysis Batch: 674896

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 671999

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	95.9	96.44		10.5		1.20	pCi/g	101	75 - 125
Cesium-137	24.6	25.82		2.63		0.212	pCi/g	105	75 - 125
Cobalt-60	5.85	6.047		0.649		0.0970	pCi/g	103	75 - 125

Lab Sample ID: 860-78355-1 DU

Matrix: Solid

Analysis Batch: 674898

Client Sample ID: Cell17-Square 64-S-3-4-240716

Prep Type: Total/NA

Prep Batch: 671999

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	1.21		1.267		0.204	1.00	0.0382	pCi/g	0.14	1
Radium-228	0.330		0.3552		0.136		0.146	pCi/g	0.09	1
Combined Radium 226 + 228	1.54		1.623		0.245		0.146	pCi/g	0.17	1

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

GC/MS VOA

Analysis Batch: 170934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8260C	170947
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8260C	170947
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8260C	170947
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8260C	170947
MB 860-170934/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-170934/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-170934/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 170947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	5030C	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	5030C	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	5030C	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	5030C	

Prep Batch: 176998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	5035	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	5035	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	5035	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	5035	
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	5035	

Analysis Batch: 177046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8260D SIM	176998
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8260D SIM	176998
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8260D SIM	176998
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8260D SIM	176998
MB 860-177046/7	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-177046/3	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-177046/4	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8260D SIM	176998

GC/MS Semi VOA

Prep Batch: 171106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	3550C	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	3550C	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	3550C	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	3550C	
MB 860-171106/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-171106/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-171106/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 175237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-171106/1-A	Method Blank	Total/NA	Solid	8270D	171106
LCS 860-171106/2-A	Lab Control Sample	Total/NA	Solid	8270D	171106
LCSD 860-171106/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	171106

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

GC/MS Semi VOA

Analysis Batch: 176773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8270D	171106
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8270D	171106
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8270D	171106
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8270D	171106

Prep Batch: 678504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	3546	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	3546	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	3546	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	3546	
MB 400-678504/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-678504/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	3546	
860-78355-1 MSD	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	3546	

Analysis Batch: 678632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8270E	678504
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8270E	678504
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8270E	678504
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8270E	678504
MB 400-678504/1-A	Method Blank	Total/NA	Solid	8270E	678504
LCS 400-678504/2-A	Lab Control Sample	Total/NA	Solid	8270E	678504
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8270E	678504
860-78355-1 MSD	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8270E	678504

GC VOA

Prep Batch: 177082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	5035	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	5035	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	5035	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	5035	

Analysis Batch: 177418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8015D	177082
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8015D	177082
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8015D	177082
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8015D	177082
MB 860-177418/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-177418/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-177418/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

GC Semi VOA

Analysis Batch: 171128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8082A	171151
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8082A	171151

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

GC Semi VOA (Continued)

Analysis Batch: 171128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8082A	171151
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8082A	171151
MB 860-171151/1-A	Method Blank	Total/NA	Solid	8082A	171151
LCS 860-171151/4-A	Lab Control Sample	Total/NA	Solid	8082A	171151
LCSD 860-171151/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	171151

Prep Batch: 171151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	3550C	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	3550C	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	3550C	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	3550C	
MB 860-171151/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-171151/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-171151/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-171151/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-171151/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 176812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8081B	171151
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8081B	171151
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8081B	171151
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8081B	171151
MB 860-171151/1-A	Method Blank	Total/NA	Solid	8081B	171151
LCS 860-171151/2-A	Lab Control Sample	Total/NA	Solid	8081B	171151
LCSD 860-171151/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	171151

Prep Batch: 778072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	3541	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	3541	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	3541	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	3541	
MB 500-778072/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-778072/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 778359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8015D	778072
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8015D	778072
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8015D	778072
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8015D	778072
MB 500-778072/1-A	Method Blank	Total/NA	Solid	8015D	778072
LCS 500-778072/2-A	Lab Control Sample	Total/NA	Solid	8015D	778072

HPLC/IC

Prep Batch: 170779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	300_Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

HPLC/IC (Continued)

Prep Batch: 170779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	300_Prep	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	300_Prep	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	300_Prep	
MB 860-170779/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-170779/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-170779/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Analysis Batch: 170994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	9056A	170779
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	9056A	170779
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	9056A	170779
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	9056A	170779
MB 860-170779/1-A	Method Blank	Total/NA	Solid	9056A	170779
MB 860-170779/1-A	Method Blank	Total/NA	Solid	9056A	170779
LCS 860-170779/2-A	Lab Control Sample	Total/NA	Solid	9056A	170779
LCS 860-170779/2-A	Lab Control Sample	Total/NA	Solid	9056A	170779
LCSD 860-170779/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	170779
LCSD 860-170779/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	170779

Analysis Batch: 170995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	9056A	170779
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	9056A	170779
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	9056A	170779
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	9056A	170779
MB 860-170779/1-A	Method Blank	Total/NA	Solid	9056A	170779
MB 860-170779/1-A	Method Blank	Total/NA	Solid	9056A	170779
LCS 860-170779/2-A	Lab Control Sample	Total/NA	Solid	9056A	170779
LCS 860-170779/2-A	Lab Control Sample	Total/NA	Solid	9056A	170779
LCSD 860-170779/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	170779
LCSD 860-170779/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	170779

Drying Batch: 661265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	Prep/Air Dry	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	Prep/Air Dry	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	Prep/Air Dry	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	Prep/Air Dry	
860-78355-2 MS	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	Prep/Air Dry	
860-78355-2 MSD	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 661465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8330B	661265
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8330B	661265
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8330B	661265
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8330B	661265
MB 280-661465/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-661465/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-78355-2 MS	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8330B	661265

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

HPLC/IC (Continued)

Prep Batch: 661465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-2 MSD	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8330B	661265

Analysis Batch: 661573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	8330B	661465
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8330B	661465
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	8330B	661465
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	8330B	661465
MB 280-661465/1-A	Method Blank	Total/NA	Solid	8330B	661465
LCS 280-661465/2-A	Lab Control Sample	Total/NA	Solid	8330B	661465
860-78355-2 MS	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8330B	661465
860-78355-2 MSD	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	8330B	661465

LCMS

Prep Batch: 661391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	6850 Solid Prep	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	6850 Solid Prep	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	6850 Solid Prep	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	6850 Solid Prep	
MB 280-661391/1-A	Method Blank	Total/NA	Solid	6850 Solid Prep	
LCS 280-661391/2-A	Lab Control Sample	Total/NA	Solid	6850 Solid Prep	

Analysis Batch: 661524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	6850	661391
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	6850	661391
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	6850	661391
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	6850	661391
MB 280-661391/1-A	Method Blank	Total/NA	Solid	6850	661391
LCS 280-661391/2-A	Lab Control Sample	Total/NA	Solid	6850	661391

Prep Batch: 661733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	1633 Shake	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	1633 Shake	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	1633 Shake	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	1633 Shake	
MB 280-661733/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 280-661733/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LCSD 280-661733/4-A	Lab Control Sample Dup	Total/NA	Solid	1633 Shake	
LLCS 280-661733/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 662229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	1633	661733
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	1633	661733
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	1633	661733
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	1633	661733
MB 280-661733/1-A	Method Blank	Total/NA	Solid	1633	661733

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

LCMS (Continued)

Analysis Batch: 662229 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-661733/3-A	Lab Control Sample	Total/NA	Solid	1633	661733
LCSD 280-661733/4-A	Lab Control Sample Dup	Total/NA	Solid	1633	661733
LLCS 280-661733/2-A	Lab Control Sample	Total/NA	Solid	1633	661733

Metals

Prep Batch: 177254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	7471B	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	7471B	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	7471B	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	7471B	
MB 860-177254/10-A	Method Blank	Total/NA	Solid	7471B	
LCS 860-177254/11-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 860-177254/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	7471B	
860-78355-1 MSD	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	7471B	

Analysis Batch: 177450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	7471B	177254
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	7471B	177254
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	7471B	177254
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	7471B	177254
MB 860-177254/10-A	Method Blank	Total/NA	Solid	7471B	177254
LCS 860-177254/11-A	Lab Control Sample	Total/NA	Solid	7471B	177254
LCSD 860-177254/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	177254
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	7471B	177254
860-78355-1 MSD	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	7471B	177254

Prep Batch: 177904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	3051A	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	3051A	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	3051A	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	3051A	
MB 860-177904/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-177904/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-177904/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 178469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	6020A	177904
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	6020A	177904
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	6020A	177904
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	6020A	177904
MB 860-177904/1-A	Method Blank	Total/NA	Solid	6020A	177904
LCS 860-177904/2-A	Lab Control Sample	Total/NA	Solid	6020A	177904
LCSD 860-177904/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	177904

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

General Chemistry

Prep Batch: 170959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	9012B	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	9012B	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	9012B	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	9012B	
MB 860-170959/17-A	Method Blank	Total/NA	Solid	9012B	
MB 860-170959/4-A	Method Blank	Total/NA	Solid	9012B	
LCS 860-170959/5-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSD 860-170959/19-A	Lab Control Sample Dup	Total/NA	Solid	9012B	
LLCS 860-170959/6-A	Lab Control Sample	Total/NA	Solid	9012B	
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	9012B	
860-78355-1 MSD	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	9012B	

Analysis Batch: 171068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	9012B	170959
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	9012B	170959
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	9012B	170959
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	9012B	170959
MB 860-170959/17-A	Method Blank	Total/NA	Solid	9012B	170959
MB 860-170959/4-A	Method Blank	Total/NA	Solid	9012B	170959
LCS 860-170959/5-A	Lab Control Sample	Total/NA	Solid	9012B	170959
LCSD 860-170959/19-A	Lab Control Sample Dup	Total/NA	Solid	9012B	170959
LLCS 860-170959/6-A	Lab Control Sample	Total/NA	Solid	9012B	170959
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	9012B	170959
860-78355-1 MSD	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	9012B	170959

Leach Batch: 172404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	7 Day Leach	Solid	335.521	
860-78355-2	Cell17-Square 44-S-3-4-240716	7 Day Leach	Solid	335.521	
860-78355-3	Cell17-Square 24-S-3-4-240716	7 Day Leach	Solid	335.521	
860-78355-4	Cell17-Square 4-S-3-4-240716	7 Day Leach	Solid	335.521	
LB 860-172404/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 175212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	Moisture - 2540	
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	Moisture - 2540	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	Moisture - 2540	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	Moisture - 2540	
MB 860-175212/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 177365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Soluble	Solid	DI Leach	
860-78355-2	Cell17-Square 44-S-3-4-240716	Soluble	Solid	DI Leach	
860-78355-3	Cell17-Square 24-S-3-4-240716	Soluble	Solid	DI Leach	
860-78355-4	Cell17-Square 4-S-3-4-240716	Soluble	Solid	DI Leach	
MB 860-177365/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 860-177365/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 860-177365/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

General Chemistry (Continued)

Leach Batch: 177365 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Soluble	Solid	DI Leach	
860-78355-1 MSD	Cell17-Square 64-S-3-4-240716	Soluble	Solid	DI Leach	

Leach Batch: 177392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Soluble	Solid	DI Leach	
860-78355-2	Cell17-Square 44-S-3-4-240716	Soluble	Solid	DI Leach	
860-78355-3	Cell17-Square 24-S-3-4-240716	Soluble	Solid	DI Leach	
860-78355-4	Cell17-Square 4-S-3-4-240716	Soluble	Solid	DI Leach	
860-78355-4 DU	Cell17-Square 4-S-3-4-240716	Soluble	Solid	DI Leach	
860-78355-4 DU	Cell17-Square 4-S-3-4-240716	Soluble	Solid	DI Leach	

Analysis Batch: 177449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Soluble	Solid	9045D	177392
860-78355-2	Cell17-Square 44-S-3-4-240716	Soluble	Solid	9045D	177392
860-78355-3	Cell17-Square 24-S-3-4-240716	Soluble	Solid	9045D	177392
860-78355-4	Cell17-Square 4-S-3-4-240716	Soluble	Solid	9045D	177392
860-78355-4 DU	Cell17-Square 4-S-3-4-240716	Soluble	Solid	9045D	177392

Analysis Batch: 177489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Soluble	Solid	9066	177365
860-78355-2	Cell17-Square 44-S-3-4-240716	Soluble	Solid	9066	177365
860-78355-3	Cell17-Square 24-S-3-4-240716	Soluble	Solid	9066	177365
860-78355-4	Cell17-Square 4-S-3-4-240716	Soluble	Solid	9066	177365
MB 860-177365/1-A	Method Blank	Soluble	Solid	9066	177365
LCS 860-177365/2-A	Lab Control Sample	Soluble	Solid	9066	177365
LCSD 860-177365/3-A	Lab Control Sample Dup	Soluble	Solid	9066	177365
860-78355-1 MS	Cell17-Square 64-S-3-4-240716	Soluble	Solid	9066	177365
860-78355-1 MSD	Cell17-Square 64-S-3-4-240716	Soluble	Solid	9066	177365

Analysis Batch: 177552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-4 DU	Cell17-Square 4-S-3-4-240716	Soluble	Solid	9045D	177392

Analysis Batch: 178422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	7 Day Leach	Solid	SM 2540C	172404
860-78355-2	Cell17-Square 44-S-3-4-240716	7 Day Leach	Solid	SM 2540C	172404
860-78355-3	Cell17-Square 24-S-3-4-240716	7 Day Leach	Solid	SM 2540C	172404
860-78355-4	Cell17-Square 4-S-3-4-240716	7 Day Leach	Solid	SM 2540C	172404
LB 860-172404/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	172404
MB 860-178422/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 860-178422/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 671501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	Dry and Grind	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Rad (Continued)

Leach Batch: 671501 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	Dry and Grind	
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	Dry and Grind	
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	Dry and Grind	
860-78355-1 DU	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	Dry and Grind	

Prep Batch: 671999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78355-1	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	Fill_Geo-21	671501
860-78355-2	Cell17-Square 44-S-3-4-240716	Total/NA	Solid	Fill_Geo-21	671501
860-78355-3	Cell17-Square 24-S-3-4-240716	Total/NA	Solid	Fill_Geo-21	671501
860-78355-4	Cell17-Square 4-S-3-4-240716	Total/NA	Solid	Fill_Geo-21	671501
MB 160-671999/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-671999/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-78355-1 DU	Cell17-Square 64-S-3-4-240716	Total/NA	Solid	Fill_Geo-21	671501

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	170947	07/18/24 11:17	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	170934	07/18/24 19:03	MTMG	EET HOU
Total/NA	Prep	5035			5.02 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 14:51	MTMG	EET HOU
Total/NA	Prep	3550C			30.02 g	1 mL	171106	07/19/24 10:44	BH	EET HOU
Total/NA	Analysis	8270D		1	1 MJ/Kg	1 MJ/Kg	176773	07/23/24 17:17	PXS	EET HOU
Total/NA	Prep	3550C			30.02 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			176812	07/23/24 19:50	A1S	EET HOU
Total/NA	Prep	3550C			30.02 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 15:16	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.79 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 00:59	JZ	EET DEN
Total/NA	Prep	300_Prep			5.03 g	50 mL	170779	07/17/24 15:14	AC	EET HOU
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	170994	07/19/24 18:18	WP	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	170779	07/17/24 15:14	AC	EET HOU
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	170995	07/19/24 18:18	WP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	177904	07/26/24 16:59	PB	EET HOU
Total/NA	Analysis	6020A		5			178469	07/30/24 11:19	DP	EET HOU
Total/NA	Prep	7471B			.54 g	50 mL	177254	07/24/24 09:45	AGR	EET HOU
Total/NA	Analysis	7471B		1			177450	07/24/24 19:02	SHZ	EET HOU
Total/NA	Prep	9012B			0.50 g	6 mL	170959	07/18/24 11:52	MLEI	EET HOU
Total/NA	Analysis	9012B		1			171068	07/18/24 16:26	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177392	07/24/24 16:35	MR	EET HOU
Soluble	Analysis	9045D		1			177449	07/24/24 21:01	MR	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU
7 Day Leach	Leach	335.521			50.05 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
Completed: 07/27/24 09:00 ¹										
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671501	07/19/24 16:40	SAC	EET SL
Total/NA	Prep	Fill_Geo-21			343.8000 g	1.0 g	671999	07/23/24 14:27	SAC	EET SL
Total/NA	Analysis	GA-01-R		1			674896	08/13/24 09:57	CAH	EET SL

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.68 g	1 mL	678504	07/20/24 11:33	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678632	07/22/24 19:04	JAW	EET PEN
Total/NA	Prep	5035			5.01 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 02:05	KLV	EET HOU
Total/NA	Prep	3541			15.6159 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
Completed: 07/24/24 13:00 ¹										
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 15:17	H7CM	EET CHI

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 64-S-3-4-240716

Lab Sample ID: 860-78355-1

Date Collected: 07/16/24 11:00

Matrix: Solid

Date Received: 07/17/24 09:36

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633 Shake			2.0 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 14:16	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			0.9576 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 15:32	MAB	EET DEN
Soluble	Leach	DI Leach			4.59 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/24/24 23:49	SC	EET HOU

Client Sample ID: Cell17-Square 44-S-3-4-240716

Lab Sample ID: 860-78355-2

Date Collected: 07/16/24 12:00

Matrix: Solid

Date Received: 07/17/24 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	170947	07/18/24 11:17	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	170934	07/18/24 19:25	MTMG	EET HOU
Total/NA	Prep	5035			5.03 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 15:16	MTMG	EET HOU
Total/NA	Prep	3550C			30.03 g	1 mL	171106	07/19/24 10:44	BH	EET HOU
Total/NA	Analysis	8270D		1	1 MJ/Kg	1 MJ/Kg	176773	07/23/24 17:41	PXS	EET HOU
Total/NA	Prep	3550C			29.97 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			176812	07/23/24 20:06	A1S	EET HOU
Total/NA	Prep	3550C			29.97 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 15:28	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.44 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 01:22	JZ	EET DEN
Total/NA	Prep	300_Prep			4.98 g	50 mL	170779	07/17/24 15:14	AC	EET HOU
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	170994	07/19/24 18:25	WP	EET HOU
Total/NA	Prep	300_Prep			4.98 g	50 mL	170779	07/17/24 15:14	AC	EET HOU
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	170995	07/19/24 18:25	WP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	177904	07/26/24 16:59	PB	EET HOU
Total/NA	Analysis	6020A		5			178469	07/30/24 11:21	DP	EET HOU
Total/NA	Prep	7471B			.55 g	50 mL	177254	07/24/24 09:45	AGR	EET HOU
Total/NA	Analysis	7471B		1			177450	07/24/24 19:11	SHZ	EET HOU
Total/NA	Prep	9012B			0.50 g	6 mL	170959	07/18/24 11:52	MLEI	EET HOU
Total/NA	Analysis	9012B		1			171068	07/18/24 16:29	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177392	07/24/24 16:35	MR	EET HOU
Soluble	Analysis	9045D		1			177449	07/24/24 21:01	MR	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU
7 Day Leach	Leach	335.521			50.08 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
								Completed: 07/27/24 09:00 ¹		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671501	07/19/24 16:40	SAC	EET SL
Total/NA	Prep	Fill_Geo-21			326.8000 g	1.0 g	671999	07/23/24 14:27	SAC	EET SL
Total/NA	Analysis	GA-01-R		1			674896	08/13/24 10:32	CAH	EET SL

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 44-S-3-4-240716

Lab Sample ID: 860-78355-2

Date Collected: 07/16/24 12:00

Matrix: Solid

Date Received: 07/17/24 09:36

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.06 g	1 mL	678504	07/20/24 11:33	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678632	07/22/24 19:30	JAW	EET PEN
Total/NA	Prep	5035			5.05 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 02:39	KLV	EET HOU
Total/NA	Prep	3541			15.0381 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
							Completed:	07/24/24 13:00 ¹		
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 15:41	H7CM	EET CHI
Total/NA	Prep	1633 Shake			2.4 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 14:35	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			0.9681 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 15:37	MAB	EET DEN
Soluble	Leach	DI Leach			5.00 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/25/24 00:00	SC	EET HOU

Client Sample ID: Cell17-Square 24-S-3-4-240716

Lab Sample ID: 860-78355-3

Date Collected: 07/16/24 13:30

Matrix: Solid

Date Received: 07/17/24 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	170947	07/18/24 11:17	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	170934	07/18/24 19:46	MTMG	EET HOU
Total/NA	Prep	5035			4.99 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 15:41	MTMG	EET HOU
Total/NA	Prep	3550C			29.96 g	1 mL	171106	07/19/24 10:44	BH	EET HOU
Total/NA	Analysis	8270D		1	1 MJ/Kg	1 MJ/Kg	176773	07/23/24 18:05	PXS	EET HOU
Total/NA	Prep	3550C			30.03 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			176812	07/23/24 20:23	A1S	EET HOU
Total/NA	Prep	3550C			30.03 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 15:40	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.91 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 02:31	JZ	EET DEN
Total/NA	Prep	300_Prep			4.95 g	50 mL	170779	07/17/24 15:14	AC	EET HOU
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	170994	07/19/24 18:32	WP	EET HOU
Total/NA	Prep	300_Prep			4.95 g	50 mL	170779	07/17/24 15:14	AC	EET HOU
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	170995	07/19/24 18:32	WP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	177904	07/26/24 16:59	PB	EET HOU
Total/NA	Analysis	6020A		5			178469	07/30/24 11:23	DP	EET HOU
Total/NA	Prep	7471B			.53 g	50 mL	177254	07/24/24 09:45	AGR	EET HOU
Total/NA	Analysis	7471B		1			177450	07/24/24 19:13	SHZ	EET HOU
Total/NA	Prep	9012B			0.51 g	6 mL	170959	07/18/24 11:52	MLEI	EET HOU
Total/NA	Analysis	9012B		1			171068	07/18/24 16:29	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177392	07/24/24 16:35	MR	EET HOU
Soluble	Analysis	9045D		1			177449	07/24/24 21:01	MR	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU

Eurofins Houston

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 24-S-3-4-240716

Lab Sample ID: 860-78355-3

Date Collected: 07/16/24 13:30

Matrix: Solid

Date Received: 07/17/24 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			50.03 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671501	07/19/24 16:40	SAC	EET SL
Total/NA	Prep	Fill_Geo-21			322.9000 g	1.0 g	671999	07/23/24 14:27	SAC	EET SL
Total/NA	Analysis	GA-01-R		1			674896	08/13/24 11:55	CAH	EET SL

Client Sample ID: Cell17-Square 24-S-3-4-240716

Lab Sample ID: 860-78355-3

Date Collected: 07/16/24 13:30

Matrix: Solid

Date Received: 07/17/24 09:36

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.62 g	1 mL	678504	07/20/24 11:33	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678632	07/22/24 19:57	JAW	EET PEN
Total/NA	Prep	5035			5.03 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 03:12	KLV	EET HOU
Total/NA	Prep	3541			15.1029 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
Completed:								07/24/24 13:00	1	
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 16:05	H7CM	EET CHI
Total/NA	Prep	1633 Shake			2.0 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 15:34	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			0.9970 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 15:42	MAB	EET DEN
Soluble	Leach	DI Leach			4.58 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/25/24 00:02	SC	EET HOU

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	170947	07/18/24 11:17	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	170934	07/18/24 20:08	MTMG	EET HOU
Total/NA	Prep	5035			5.05 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 16:06	MTMG	EET HOU
Total/NA	Prep	3550C			30.01 g	1 mL	171106	07/19/24 10:44	BH	EET HOU
Total/NA	Analysis	8270D		1	1 MJ/Kg	1 MJ/Kg	176773	07/23/24 18:30	PXS	EET HOU
Total/NA	Prep	3550C			30.03 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			176812	07/23/24 20:39	A1S	EET HOU
Total/NA	Prep	3550C			30.03 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 15:53	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.17 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 02:54	JZ	EET DEN
Total/NA	Prep	300_Prep			5.05 g	50 mL	170779	07/17/24 15:14	AC	EET HOU
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	170994	07/19/24 18:39	WP	EET HOU

Eurofins Houston

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.05 g	50 mL	170779	07/17/24 15:14	AC	EET HOU
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	170995	07/19/24 18:39	WP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	177904	07/26/24 16:59	PB	EET HOU
Total/NA	Analysis	6020A		5			178469	07/30/24 11:25	DP	EET HOU
Total/NA	Prep	7471B			.54 g	50 mL	177254	07/24/24 09:45	AGR	EET HOU
Total/NA	Analysis	7471B		1			177450	07/24/24 19:14	SHZ	EET HOU
Total/NA	Prep	9012B			0.50 g	6 mL	170959	07/18/24 11:52	MLEI	EET HOU
Total/NA	Analysis	9012B		1			171068	07/18/24 16:30	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177392	07/24/24 16:35	MR	EET HOU
Soluble	Analysis	9045D		1			177449	07/24/24 21:01	MR	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU
7 Day Leach	Leach	335.521			50.01 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
							Completed:	07/27/24 09:00 ¹		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671501	07/19/24 16:40	SAC	EET SL
Total/NA	Prep	Fill_Geo-21			300.7000 g	1.0 g	671999	07/23/24 14:27	SAC	EET SL
Total/NA	Analysis	GA-01-R		1			674896	08/13/24 12:28	CAH	EET SL

Client Sample ID: Cell17-Square 4-S-3-4-240716

Lab Sample ID: 860-78355-4

Date Collected: 07/16/24 14:40

Matrix: Solid

Date Received: 07/17/24 09:36

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.57 g	1 mL	678504	07/20/24 11:33	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678632	07/22/24 20:24	JAW	EET PEN
Total/NA	Prep	5035			5.02 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 03:45	KLV	EET HOU
Total/NA	Prep	3541			15.1190 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
							Completed:	07/24/24 13:00 ¹		
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 16:29	H7CM	EET CHI
Total/NA	Prep	1633 Shake			2.2 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 15:53	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			1.0265 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 15:48	MAB	EET DEN
Soluble	Leach	DI Leach			5.36 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/25/24 00:05	SC	EET HOU

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Houston

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78355-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	06-30-25
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	08-01-24
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	08-01-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	08-04-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78355-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Denver (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	07-31-24
New Hampshire	NELAP	2053	08-12-24
New Jersey	NELAP	230001	08-04-24
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

Laboratory: Eurofins St. Louis

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78355-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24 *
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	10-01-24
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-24 *
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24 *
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

Method Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78355-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	EET DEN
9056A	Anions, Ion Chromatography	SW846	EET HOU
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET DEN
6850	Perchlorate by LC/MS or LC/MS/MS	EPA	EET DEN
6020A	Metals (ICP/MS)	SW846	EET HOU
7471B	Mercury (CVAA)	SW846	EET HOU
9012B	Cyanide, Total and/or Amenable	SW846	EET HOU
9045D	pH	SW846	EET HOU
9066	Phenolics, Total Recoverable	SW846	EET HOU
Moisture - 2540	Percent Moisture	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	EET SL
1633 Shake	Shake Extraction with SPE	EPA	EET DEN
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET PEN
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
6850 Solid Prep	Deionized Water Leach Prep	EPA	EET DEN
7471B	Preparation, Mercury	SW846	EET HOU
8330B	Sonication Extraction (Explosives)	SW846	EET DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU
Dry and Grind	Preparation, Dry and Grind	None	EET SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	EET SL
Prep/Air Dry	Preparation, Air drying	None	EET DEN

Protocol References:

ASTM = ASTM International

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAC-30 = Chapter 30 Of The Texas Administrative Code, May 19, 1995.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Houston

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78355-1

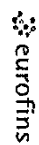
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-78355-1	Cell17-Square 64-S-3-4-240716	Solid	07/16/24 11:00	07/17/24 09:36
860-78355-2	Cell17-Square 44-S-3-4-240716	Solid	07/16/24 12:00	07/17/24 09:36
860-78355-3	Cell17-Square 24-S-3-4-240716	Solid	07/16/24 13:30	07/17/24 09:36
860-78355-4	Cell17-Square 4-S-3-4-240716	Solid	07/16/24 14:40	07/17/24 09:36

- 1
- 2
- 3
- 4
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- 8
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- 14
- 15
- 16

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

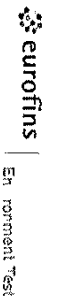
Chain of Custody Record



Environement Test

[illegible]

Chain of Custody Record



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

Client Information
Client Contact: **Alison Schaffer**
Phone: **432-999-2480**

Company: **Arcaadis U.S. Inc.**

Address: **630 Plaza Drive Suite 100**

City: **Highlands Ranch**

State, Zip: **CO 80129-2377**

Phone: **303-710-7537 (Te)**

Email: **Alison.Schaffer@arcaadis.com**

Project Name: **Chevron Jal Land Farm Soils**

Site: **21 Land Farm**

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Matrix (W=Water, S=Soil, O=Other)

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

GA_01_R_Ra (MOD) Radium-226/228

6860 Standard 6860 list

8330B (MOD) DOD Sublist

PFC (MOD) Custom List

8270D_AgChem (MOD) Copy Analytes

2640C Local Method

8260B (MOD) mod

8260C_SIM 1,4-Dioxane

8015MOD_NM (MOD) Copy Analytes

6020A, 7471A, 8081B, 8082A, 8270D, 9012A, 9045D, 9056A_ORGFM_28D, 9058A_ORGFM_48H, 9066

Total Number of containers

Special Instructions/Note

Temp. 4 3 IR ID: HOU-368

C/F +0.2 Corrected Temp: 4.5

Temp. 3 1 IR ID: HOU-368

C/F +0.2 Corrected Temp: 3.3

Temp. 4 3 IR ID: HOU-368

C/F +0.2 Corrected Temp: 4.5

Temp. 3 1 IR ID: HOU-368

C/F +0.2 Corrected Temp: 3.3

Temp. 4 3 IR ID: HOU-368

C/F +0.2 Corrected Temp: 4.5

Temp. 3 1 IR ID: HOU-368

C/F +0.2 Corrected Temp: 3.3

Temp. 4 3 IR ID: HOU-368

C/F +0.2 Corrected Temp: 4.5

Temp. 3 1 IR ID: HOU-368

C/F +0.2 Corrected Temp: 3.3

Temp. 4 3 IR ID: HOU-368

C/F +0.2 Corrected Temp: 4.5

Temp. 3 1 IR ID: HOU-368

C/F +0.2 Corrected Temp: 3.3

Analysis Requested

Lab P/Nr: **Kuchhadkar Sachin G**

E-Mail: **Sachin.Kuchhadkar@eurofins.com**

State of Origin: **ND**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

Job #: **2**

Preservation Codes: **N None**

COG No: **860-30807-1693.1**

Page: **1 of 2**

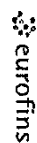
Job #: **2**

Preservation Codes: **N None**

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



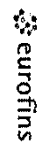
Environ Monit Assess

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Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



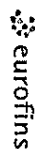
Environ Monit Assess

[illegible]

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



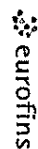
Environ Biol Fish

Client Information Client Contact: Alison Schaffer Phone: 432-990-2282 Company: Arcadis U.S. Inc. Address: 630 Plaza Drive Suite 100 City: Highlands Ranch State Zip: CO 80129-2877 Phone: 303-710-7537 (Tel) Email: Alison.Schaffer@arcadis.com Project Name: Chevron - Jail Land Farm Soils Site: Sol Land Farm		Sampler: Daniel M. Lee Lab Pk: Kudchnacker Sachin G E-Mail: Sachin.Kudchnacker@et.eurofinsus.com State of Origin: NM Page: 2 of 2 Job #: 2022	
Due Date Requested: TAT Requested (days): 5 Compliance Project: ☐ Yes ☒ No PO #: 303-710-7537 (Tel) Purchase Order Requested Project #: 86002103 SSO#: SSO#		Analysis Requested Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) GA_01_R_Ra (MOD) Rad/Lum-226/228 6860 Standard 6860 list 8330B (MOD) DOD Sublist PFC (MOD) Custom List 8270D_AgChem (MOD) Copy Analytes 2540C Local Method 8260B (MOD) mod 8250C_SIM 1,4-Dioxane 8016MOD_NM (MOD) Copy Analytes 6020A, 7471A, 8081B, 8082A, 8270D, 9012A, 9045D, 9056A_ORGFM_28D, 9056A_ORGFM_48H, 9066	
Sample Identification Cell 17-Square 64-5-3-4-240716 Cell 17-Square 44-5-3-4-240716 Cell 17-Square 24-5-3-4-240716 Cell 17-Square 4-5-3-4-240716		Sample Date 7-4-24 1200 1330 1440	
Sample Type (C=Comp, G=Grab) Preservation Code:		Sample Matrix (M=Mon, S=Solid, G=Gravel, B=Br, T=Truss, L=Leaf) Solid Solid Solid Solid	
Barcode:  860-78355 Chain of Custody		Solid Solid Solid Solid	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date: _____ Date Time: _____ Date Time: _____ Date Time: _____	
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____	

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environ Test

Client Information		Sampler	Lap No:
Client Contact: Alison Schaffer		Name: <u>Daniel M Lee</u>	Kidnacker Sachin G
Company: Arcadis U.S. Inc.		Phone: <u>(33-999-2282)</u>	E-Mail: <u>Sachin.Kudnacker@et.eurofinus.com</u>
Address: 630 Plaza Drive Suite 100 City: Highlands Ranch State Zip: CO 80129-2877		Due Date Requested:	PMSID:
Phone: <u>303-710-7537(Tel)</u>		TAT Requested (days): <u>Standard</u>	Analysis Requested
Email: <u>Alison.Schaffer@arcadis.com</u>		Compliance Project: ☐ Yes ☒ No	Field Filtered Sample (Yes or No) ☒
Project Name: <u>Chevron - Jail Land Farm Soils</u>		PO #: _____	Perform MS/MSD (Yes or No) ☒
Site: <u>Jail Land Farm</u>		Purchase Order Requested	GA_01_R_Ra (MOD) Rad/Lum-226/228
		Project #: <u>86002103</u>	6860 Standard 6860 Ilat
		SSOW#: _____	8330B (MOD) DOD Sublist
			PFC (MOD) Custom List
			8270D_AgChem (MOD) Copy Analytes
			2540C Local Method
			8260B (MOD) mod
			8250C_SIM 1,4-Dioxane
			8016MOD_NM (MOD) Copy Analytes
			6020A, 7471A, 8081B, 8082A, 8270D, 9012A, 9045D, 9056A_ORGFM_28D, 9056A_ORGFM_48H, 9066
			Total Number of containers
			Preservation Codes: N None
			Other
			Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W-wat, S-soli, O-organi, A-aq)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra (MOD) Rad/Lum-226/228	6860 Standard 6860 Ilat	8330B (MOD) DOD Sublist	PFC (MOD) Custom List	8270D_AgChem (MOD) Copy Analytes	2540C Local Method	8260B (MOD) mod	8250C_SIM 1,4-Dioxane	8016MOD_NM (MOD) Copy Analytes	6020A, 7471A, 8081B, 8082A, 8270D, 9012A, 9045D, 9056A_ORGFM_28D, 9056A_ORGFM_48H, 9066	Total Number of containers	Special Instructions/Note:
Cell 17-Square 64-5-3-4-2407E	7-4-24	1000	G	Solid		X	N	X	X	X	X	X	X	X	X	X	X		
Cell 17-Square 44-5-3-4-2407E		1200	I	Solid		X	X	X	X	X	X	X	X	X	X	X	X		
Cell 17-Square 24-5-3-4-2407E		1330	I	Solid		X	X	X	X	X	X	X	X	X	X	X	X		
Cell 17-Square 4-5-3-4-2407E	7-6-24	1440	G	Solid		X	X	X	X	X	X	X	X	X	X	X	X		
				Solid		X	X	X	X	X	X	X	X	X	X	X	X		
				Solid		X	X	X	X	X	X	X	X	X	X	X	X		
				Solid		X	X	X	X	X	X	X	X	X	X	X	X		
				Solid		X	X	X	X	X	X	X	X	X	X	X	X		

860-78355 Chain of Custody



860-78355 Chain of Custody

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

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

Relinquished by: _____ **Date/Time:** 7-16-24 / 1600 **Company:** Arcadis

Received by: _____ **Date/Time:** _____ **Company:** _____

Relinquished by: _____ **Date/Time:** _____ **Company:** _____

Received by: _____ **Date/Time:** _____ **Company:** _____

Cooler Temperature(s) °C and Other Remarks:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:



Chain of Custody Record

Client Information (Sub Contract Lab)				Lab PM:	Carrier Tracking No(s)	COC No:	
Client Contact				Kudchadkar, Sachin G		860-138864.1	
Shipping/Receiving				E-Mail	State of Origin	Page	
Company				Sachin.Kudchadkar@et.eurofinsus.com	Texas	Page 1 of 1	
Address:				Accreditations Required (See note):			
13715 Rider Trail North,				NELAP - Texas			
City				Preservation Codes:			
Earth City							
State, Zip:							
MO, 63045							
Phone							
314-298-8566(Tel) 314-298-8757(Fax)							
Email:							
Project Name							
Chevron - Jal Land Farm Soils							
Site							
Due Date Requested:				Analysis Requested			
8/5/2024							
TAT Requested (days):							
PO #							
WO #							
Project #							
86002103							
SSOW#:							
Sample Date				Sample Time		Matrix	
7/16/24				11:00 Central		Solid	
7/16/24				12:00 Central		Solid	
7/16/24				13:30 Central		Solid	
7/16/24				14:40 Central		Solid	
Cell17-Square 64-5-3-4-240716 (860-78355-1)				X		2	
Cell17-Square 44-5-3-4-240716 (860-78355-2)				X		2	
Cell17-Square 24-5-3-4-240716 (860-78355-3)				X		2	
Cell17-Square 4-5-3-4-240716 (860-78355-4)				X		2	
Sample Identification - Client ID (Lab ID)				Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
				GA_01_R_RadDry_Grind (MOD) Radium-226/228 <td colspan="2"></td>			
						Total Number of Containers	
						Special Instructions/Note:	
						Other:	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed

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

Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements:

Date: Time: Method of Shipment:

Received by: Company: Date/Time:

Received by: Company: Date/Time:

Received by: Company: Date/Time:

Cooler Temperature(s) °C and Other Remarks:

Custody Seal No.: ☐ Yes ☐ No

 eurofins

Environment Testing

Chain of Custody Record

[illegible]

Ver. 04/02/2024



Chain of Custody Record

[illegible]

Eurofins Houston

4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record



eurofins | Environment Testing

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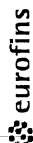
Chain of Custody Record

Environment Testing

Ver: 04/02/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record



Environment Testing

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Environment Testing

[illegible]

4145 Greenbriar Dr
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Phone: 281-240-4200

Environment Testing

[illegible]

Eurofins Houston

4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record



eurofins

Environment Testing

Client Information (Sub Contract Lab)			Sampler		Lab PM		Carrier Tracking No(s)		COC No			
Client Contact: Shipping/Receiving			Phone		Kudchadkar, Sachin G		E-Mail		860-138854 1			
					Sachin Kudchadkar@et eurofinsus.com		State of Origin.		Page			
							Texas		Page 1 of 1			
Company: Eurofins Environment Testing North Centr					Accreditations Required (See note). NELAP - Texas					Job #.		
Address: 2417 Bond Street,					Due Date Requested 8/2/2024					860-78355-1		
City: University Park					TAT Requested (days).					Preservation Codes.		
State Zip: IL, 60484					Analysis Requested					Total Number of containers		
Phone: 708-534-5200(Tel) 708-534-5211(Fax)												
Email												
Project Name Chevron - Jal Land Farm Soils												
Site					PO #:					Other:		
860-78355 COC					WO #:							
Project #: 86002103					Field Filtered Sample (Yes or No)							
SSOW#.					Perform MS/MSD (Yes or No)							
					8015D_DRO3541 (MOD) Local Method							
Sample Identification - Client ID (Lab ID)			Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:	
							Preservation Code:					
Cell17-Square 64-5-3-4-240716 (860-78355-1)			7/16/24		11 00 Central		Solid		X		1	
Cell17-Square 44-5-3-4-240716 (860-78355-2)			7/16/24		12 00 Central		Solid		X		1	
Cell17-Square 24-5-3-4-240716 (860-78355-3)			7/16/24		13 30 Central		Solid		X		1	
Cell17-Square 4-5-3-4-240716 (860-78355-4)			7/16/24		14 40 Central		Solid		X		1	
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.												
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months						
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements						
Empty Kit Relinquished by:			Date		Time		Method of Shipment:					
Relinquished by:			Date/Time		Company		Received by:		Date/Time		Company	
Relinquished by:			Date/Time		Company		Received by:		Date/Time		Company	
Relinquished by:			Date/Time		Company		Received by:		Date/Time		Company	
Custody Seals Intact Δ Yes Δ No			Custody Seal No			Cooler Temperature(s) °C and Other Remarks.						

Eurofins Houston

4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)			Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact: Shipping/Receiving			Phone		Kudchadkar, Sachin G		State of Origin. Texas		860-138854 1	
Company: Eurofins Environment Testing North Centr			Address: 2417 Bond Street,		E-Mail Sachin.Kudchadkar@et.eurofinsus.com		Accreditations Required (See note). NELAP - Texas		Page Page 1 of 1	
City: University Park			State Zip: IL, 60484		Due Date Requested 8/2/2024		Analysis Requested		Job #. 860-78355-1	
Phone: 708-534-5200(Tel) 708-534-5211(Fax)			Email		TAT Requested (days).		Preservation Codes.		-	
Project Name Chevron - Jal Land Farm Soils			Site		PO #:		Field Filtered Sample (Yes or No)		Other:	
860-78355 COC			860-78355 COC		WO #:		Perform MS/MSD (Yes or No)		8015D_DRO3541 (MOD) Local Method	
Project #: 86002103			SSOW#.		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Total Number of containers	
Sample Identification - Client ID (Lab ID)			Sample Date		Sample Time		Preservation Code:		Special Instructions/Note:	
Cell17-Square 64-5-3-4-240716 (860-78355-1)			7/16/24		11 00 Central		Solid		X	
Cell17-Square 44-5-3-4-240716 (860-78355-2)			7/16/24		12 00 Central		Solid		X	
Cell17-Square 24-5-3-4-240716 (860-78355-3)			7/16/24		13 30 Central		Solid		X	
Cell17-Square 4-5-3-4-240716 (860-78355-4)			7/16/24		14 40 Central		Solid		X	
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I, II, III, IV, Other (specify)			Primary Deliverable Rank 2							
Empty Kit Relinquished by			Date		Time		Method of Shipment:			
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 Δ Yes Δ No			Custody Seal No				Cooler Temperature(s) °C and Other Remarks.			

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78355-1

Login Number: 78355

List Source: Eurofins Houston

List Number: 1

Creator: Jimenez, Nicanor

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78355-1

Login Number: 78355

List Number: 4

Creator: Scott, Sherri L

List Source: Eurofins Chicago

List Creation: 07/19/24 04:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
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	4.6
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78355-1

Login Number: 78355

List Number: 2

Creator: Held, Wesley

List Source: Eurofins Denver

List Creation: 07/19/24 12:08 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78355-1

Login Number: 78355

List Number: 5

Creator: Pardonner, Brett

List Source: Eurofins Pensacola

List Creation: 07/19/24 06:10 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C ir-8
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78355-1

Login Number: 78355

List Number: 3

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 07/19/24 02:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
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.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 8/16/2024 6:38:43 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-78488-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477



Eurofins Houston

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
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-78488-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

LCMS

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Job ID: 860-78488-1

Eurofins Houston

Job Narrative
860-78488-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 7/18/2024 10:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.1°C, 4.5°C and 4.9°C.

Receipt Exceptions

An Internal Chain-of-Custody (COC) was not received with these samples in Denver on 07-27-24. Cell17-Square 6-S-3-4-240717 (860-78488-1), Cell18-Square 63-S-3-4-240717 (860-78488-2), Cell18-Square 142-S-3-4-240717 (860-78488-3), Cell18-Square 140-S-3-4-240717 (860-78488-4), Cell18-Square 120-S-3-4-240717 (860-78488-5) and Cell21-Square 194-S-3-4-240717 (860-78488-6).

GC/MS VOA

Method 8260D_SIM: Sample is in a bulk jar.

Cell17-Square 6-S-3-4-240717 (860-78488-1), Cell18-Square 63-S-3-4-240717 (860-78488-2), Cell18-Square 142-S-3-4-240717 (860-78488-3), Cell18-Square 140-S-3-4-240717 (860-78488-4), Cell18-Square 120-S-3-4-240717 (860-78488-5), Cell21-Square 194-S-3-4-240717 (860-78488-6) and (860-78355-P-1-C)

Method 8260C: Sample is in a bulk jar.

Cell17-Square 6-S-3-4-240717 (860-78488-1), Cell18-Square 63-S-3-4-240717 (860-78488-2), Cell18-Square 142-S-3-4-240717 (860-78488-3), Cell18-Square 140-S-3-4-240717 (860-78488-4), Cell18-Square 120-S-3-4-240717 (860-78488-5) and Cell21-Square 194-S-3-4-240717 (860-78488-6)

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

GC/MS Semi VOA

Method 8270D: The surrogate recovery for the matrix spike duplicate (MSD) associated with preparation batch 860-171167 and analytical batch 860-175281 was outside the upper control limits.

Method 8270D: The surrogate recovery for the laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-171106 and analytical batch 860-175237 was outside the upper control limits.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: Cell17-Square 6-S-3-4-240717 (860-78488-1), Cell18-Square 63-S-3-4-240717 (860-78488-2) and Cell18-Square 142-S-3-4-240717 (860-78488-3). These results have been reported and qualified.

Method 8270D: Internal standard (ISTD) response for the following sample in analytical batch 860-176773 was outside acceptance criteria: Cell18-Square 63-S-3-4-240717 (860-78488-2). The ISTD was biased low and the target compounds that correspond to the ISTD were non-detected; 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.

Gasoline Range Organics

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

Eurofins Houston

Case Narrative

Client: Arcadis U.S., Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Job ID: 860-78488-1 (Continued)

Eurofins Houston

Diesel Range Organics

Method 8015D_DRO: The method blank for preparation batch 500-778072 and analytical batch 500-778359 contained C10-C28 and C28-C36 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

PCBs

Method 8082A: The surrogate recovery for the blank associated with preparation batch 860-171151 and analytical batch 860-171128 was outside the upper control limits.

Method 8082A: The surrogate recovery for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with preparation batch 860-171151 and analytical batch 860-171128 was outside the upper control limits. (LCS 860-171151/4-A) and (LCSD 860-171151/5-A)

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

Pesticides

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

HPLC/IC

Method 9056A_ORGFM_28D: The instrument blank for analytical batch 860-177273 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 9056A_ORGFM_28D: The instrument blank/CCB for analytical batch 860-177596 contained Chloride and Sulfate greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 9056A_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-177298 and analytical batch 860-177596 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 9056A_ORGFM_28D: The instrument blank/CCB for analytical batch 860-177273 contained Sulfate greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 9056A_ORGFM_48H: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-177298 and analytical batch 860-177597 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 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Per client request the samples were treated as discrete samples where they were air dried and aliquotted, but did not have ISM performed and were not sieved. The prep for these samples deviated from SOP as they were not sieved or ISM aliquotted as required by DV-OP-0013 sections 10.5 and 10.6 and DV-OP-0018 section 2.0.

Cell17-Square 6-S-3-4-240717 (860-78488-1), Cell18-Square 63-S-3-4-240717 (860-78488-2), Cell18-Square 142-S-3-4-240717 (860-78488-3), Cell18-Square 140-S-3-4-240717 (860-78488-4), Cell18-Square 120-S-3-4-240717 (860-78488-5) and Cell21-Square 194-S-3-4-240717 (860-78488-6) in preparation batch 280-661265 by Dry_Sample for 8330B_Sonc_10g/8330B.

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

LCMS

Method 6850: The transition mass ratio for perchlorate in sample Cell18-Square 63-S-3-4-240717 (860-78488-2), Cell18-Square 140-S-3-4-240717 (860-78488-4) and Cell21-Square 194-S-3-4-240717 (860-78488-6) in analytical batch 280-661524 was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte.

Eurofins Houston

Case Narrative

Client: Arcadis U.S., Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Job ID: 860-78488-1 (Continued)**Eurofins Houston**

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

PFAS

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

Metals

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-178147 and analytical batch 860-178374 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-178147 and analytical batch 860-178469 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

Method 9066 - Soluble: The method blank for analytical batch 860-177489 contained Phenols, Total 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. The method blank associated with these samples was non-detect.

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

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-672192

Many isotopes requested by gamma spectrometry analysis do not have any gamma emissions, the gamma emissions they do have are very poor, and/or are reported by assuming secular equilibrium with a longer-lived parent (or vice-versa). For example, Th-232 (which does not have a good gamma-ray) is often reported assuming the shorter-lived Ra-228 daughter is in equilibrium with the Th-232 parent. Or, Pb-214 and/or Bi-214, daughters of potentially volatile Rn-222 in the Ra-226 decay chain, may not be in equilibrium with the parent unless sufficient time has been allowed since the break in equilibrium (e.g. 21 days in the case of Ra-226-supported ingrowth). The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from Reported to Analyte

Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Cell17-Square 6-S-3-4-240717 (860-78488-1), Cell18-Square 63-S-3-4-240717 (860-78488-2), Cell18-Square 142-S-3-4-240717 (860-78488-3), Cell18-Square 140-S-3-4-240717 (860-78488-4), Cell18-Square 120-S-3-4-240717 (860-78488-5), Cell21-Square 194-S-3-4-240717 (860-78488-6), (160-54761-A-21-B) and (160-54761-A-21-C DU)

Eurofins Houston

Case Narrative

Client: Arcadis U.S., Inc.
Project: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Job ID: 860-78488-1 (Continued) **Eurofins Houston**

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

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78488-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 6-S-3-4-240717

Lab Sample ID: 860-78488-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.24	J b	8.53	2.53	mg/Kg	1	☼	8015D	Total/NA
C28-C36	13.2	J b	17.2	8.63	mg/Kg	1	☼	8015D	Total/NA
Chloride	402		9.94	4.97	mg/Kg	1		9056A	Total/NA
Nitrate as N	51.8		0.994	0.688	mg/Kg	1		9056A	Total/NA
Fluoride	2.20	J	4.97	0.994	mg/Kg	1		9056A	Total/NA
Nitrite as N	4.57		0.994	0.499	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	56.3		0.994	0.499	mg/Kg	1		9056A	Total/NA
Sulfate	140		9.94	4.29	mg/Kg	1		9056A	Total/NA
Perchlorate	0.258	J b	0.812	0.0893	ug/Kg	1	☼	6850	Total/NA
Silver	0.365	J	0.847	0.203	mg/Kg	5		6020A	Total/NA
Arsenic	2.77		1.69	0.436	mg/Kg	5		6020A	Total/NA
Barium	75.2		1.69	0.581	mg/Kg	5		6020A	Total/NA
Beryllium	0.502	J	0.847	0.214	mg/Kg	5		6020A	Total/NA
Chromium	11.7		1.69	0.229	mg/Kg	5		6020A	Total/NA
Copper	5.53		1.69	0.492	mg/Kg	5		6020A	Total/NA
Iron	10000		169	69.8	mg/Kg	100		6020A	Total/NA
Manganese	133		0.847	0.181	mg/Kg	5		6020A	Total/NA
Lead	5.72		0.847	0.269	mg/Kg	5		6020A	Total/NA
Antimony	1.82		1.69	0.903	mg/Kg	5		6020A	Total/NA
Selenium	0.991		0.847	0.400	mg/Kg	5		6020A	Total/NA
Uranium	0.276	J	0.424	0.119	mg/Kg	5		6020A	Total/NA
Zinc	24.8		1.69	0.496	mg/Kg	5		6020A	Total/NA
Mercury	0.0131	J	0.0192	0.00861	mg/Kg	1		7471B	Total/NA
Cyanide, Total	48.3	J	60.0	29.8	ug/Kg	1		9012B	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Phenols, Total	0.0887	J	0.0954	0.0572	mg/Kg	1	☼	9066	Soluble
Total Dissolved Solids	122		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.63	J b	8.60	2.55	mg/Kg	1	☼	8015D	Total/NA
C28-C36	11.5	J b	17.3	8.70	mg/Kg	1	☼	8015D	Total/NA
Nitrate as N	6.52		0.996	0.689	mg/Kg	1		9056A	Total/NA
Fluoride	3.80	J	4.98	0.996	mg/Kg	1		9056A	Total/NA
Nitrite as N	4.21		0.996	0.500	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	10.7		0.996	0.500	mg/Kg	1		9056A	Total/NA
Sulfate	62.8		9.96	4.30	mg/Kg	1		9056A	Total/NA
Perchlorate	0.368	J b	0.843	0.0927	ug/Kg	1	☼	6850	Total/NA
Arsenic	3.47		1.67	0.429	mg/Kg	5		6020A	Total/NA
Barium	245		1.67	0.571	mg/Kg	5		6020A	Total/NA
Beryllium	0.326	J	0.833	0.211	mg/Kg	5		6020A	Total/NA
Chromium	2.93		1.67	0.225	mg/Kg	5		6020A	Total/NA
Copper	1.51	J	1.67	0.483	mg/Kg	5		6020A	Total/NA
Iron	2820		8.33	3.43	mg/Kg	5		6020A	Total/NA
Manganese	33.5		0.833	0.178	mg/Kg	5		6020A	Total/NA
Lead	2.70		0.833	0.264	mg/Kg	5		6020A	Total/NA
Selenium	0.471	J	0.833	0.394	mg/Kg	5		6020A	Total/NA
Uranium	0.404	J	0.417	0.117	mg/Kg	5		6020A	Total/NA
Zinc	7.13		1.67	0.488	mg/Kg	5		6020A	Total/NA
Mercury	0.0117	J	0.0182	0.00814	mg/Kg	1		7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 63-S-3-4-240717 (Continued)

Lab Sample ID: 860-78488-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	87.7		60.0	29.8	ug/Kg	1		9012B	Total/NA
pH	9.3	HF			SU	1		9045D	Soluble
Phenols, Total	0.0813	J	0.103	0.0617	mg/Kg	1	⊗	9066	Soluble
Total Dissolved Solids	65.5		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-Square 142-S-3-4-240717

Lab Sample ID: 860-78488-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	8.09		0.992	0.687	mg/Kg	1		9056A	Total/NA
Fluoride	7.61		4.96	0.992	mg/Kg	1		9056A	Total/NA
Nitrite as N	4.38		0.992	0.498	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	12.5		0.992	0.498	mg/Kg	1		9056A	Total/NA
Sulfate	71.9		9.92	4.29	mg/Kg	1		9056A	Total/NA
Perfluorooctanoic acid (PFOA)	0.112	J	0.180	0.0760	ug/Kg	1	⊗	1633	Total/NA
Perchlorate	0.453	J b	0.902	0.0992	ug/Kg	1	⊗	6850	Total/NA
Arsenic	2.93		1.67	0.429	mg/Kg	5		6020A	Total/NA
Barium	383		1.67	0.571	mg/Kg	5		6020A	Total/NA
Chromium	2.74		1.67	0.225	mg/Kg	5		6020A	Total/NA
Copper	1.47	J	1.67	0.483	mg/Kg	5		6020A	Total/NA
Iron	2460		8.33	3.43	mg/Kg	5		6020A	Total/NA
Manganese	20.3		0.833	0.178	mg/Kg	5		6020A	Total/NA
Lead	2.08		0.833	0.264	mg/Kg	5		6020A	Total/NA
Uranium	0.374	J	0.417	0.117	mg/Kg	5		6020A	Total/NA
Zinc	5.59		1.67	0.488	mg/Kg	5		6020A	Total/NA
Mercury	0.0158	J	0.0200	0.00895	mg/Kg	1		7471B	Total/NA
Cyanide, Total	66.8		58.8	29.2	ug/Kg	1		9012B	Total/NA
pH	9.4	HF			SU	1		9045D	Soluble
Phenols, Total	0.0708	J	0.118	0.0708	mg/Kg	1	⊗	9066	Soluble
Total Dissolved Solids	111		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	44.4		9.98	4.99	mg/Kg	1		9056A	Total/NA
Nitrate as N	10.9		0.998	0.691	mg/Kg	1		9056A	Total/NA
Fluoride	7.40		4.99	0.998	mg/Kg	1		9056A	Total/NA
Nitrite as N	5.21		0.998	0.501	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	16.1		0.998	0.501	mg/Kg	1		9056A	Total/NA
Sulfate	149		9.98	4.31	mg/Kg	1		9056A	Total/NA
Perchlorate	0.279	J b	0.854	0.0940	ug/Kg	1	⊗	6850	Total/NA
Arsenic	2.93		1.69	0.436	mg/Kg	5		6020A	Total/NA
Barium	216		1.69	0.581	mg/Kg	5		6020A	Total/NA
Chromium	3.45		1.69	0.229	mg/Kg	5		6020A	Total/NA
Copper	1.63	J	1.69	0.492	mg/Kg	5		6020A	Total/NA
Iron	3080		8.47	3.49	mg/Kg	5		6020A	Total/NA
Manganese	36.8		0.847	0.181	mg/Kg	5		6020A	Total/NA
Lead	2.26		0.847	0.269	mg/Kg	5		6020A	Total/NA
Uranium	0.428		0.424	0.119	mg/Kg	5		6020A	Total/NA
Zinc	7.41		1.69	0.496	mg/Kg	5		6020A	Total/NA
Mercury	0.0103	J	0.0189	0.00844	mg/Kg	1		7471B	Total/NA
Cyanide, Total	80.1		60.0	29.8	ug/Kg	1		9012B	Total/NA
pH	9.6	HF			SU	1		9045D	Soluble

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 140-S-3-4-240717 (Continued)

Lab Sample ID: 860-78488-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	91.0		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-Square 120-S-3-4-240717

Lab Sample ID: 860-78488-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.02	J b	8.62	2.56	mg/Kg	1	✳	8015D	Total/NA
Chloride	5.31	J	10.0	5.00	mg/Kg	1		9056A	Total/NA
Nitrate as N	15.5		1.00	0.692	mg/Kg	1		9056A	Total/NA
Fluoride	7.09		5.00	1.00	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	15.5		1.00	0.502	mg/Kg	1		9056A	Total/NA
Sulfate	99.6		10.0	4.32	mg/Kg	1		9056A	Total/NA
Perchlorate	0.454	J b	0.847	0.0931	ug/Kg	1	✳	6850	Total/NA
Arsenic	2.82		1.67	0.429	mg/Kg	5		6020A	Total/NA
Barium	278		1.67	0.571	mg/Kg	5		6020A	Total/NA
Beryllium	0.219	J	0.833	0.211	mg/Kg	5		6020A	Total/NA
Chromium	3.03		1.67	0.225	mg/Kg	5		6020A	Total/NA
Copper	1.18	J	1.67	0.483	mg/Kg	5		6020A	Total/NA
Iron	2850		8.33	3.43	mg/Kg	5		6020A	Total/NA
Manganese	21.9		0.833	0.178	mg/Kg	5		6020A	Total/NA
Lead	2.41		0.833	0.264	mg/Kg	5		6020A	Total/NA
Uranium	0.380	J	0.417	0.117	mg/Kg	5		6020A	Total/NA
Zinc	6.46		1.67	0.488	mg/Kg	5		6020A	Total/NA
Mercury	0.0131	J	0.0192	0.00861	mg/Kg	1		7471B	Total/NA
Cyanide, Total	62.4		58.8	29.2	ug/Kg	1		9012B	Total/NA
pH	9.7	HF			SU	1		9045D	Soluble
Total Dissolved Solids	109		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16.6		10.0	5.00	mg/Kg	1		9056A	Total/NA
Nitrate as N	5.57		1.00	0.692	mg/Kg	1		9056A	Total/NA
Fluoride	8.81		5.00	1.00	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.57		1.00	0.502	mg/Kg	1		9056A	Total/NA
Sulfate	96.8		10.0	4.32	mg/Kg	1		9056A	Total/NA
Perchlorate	0.235	J b	0.920	0.101	ug/Kg	1	✳	6850	Total/NA
Arsenic	4.13		1.72	0.444	mg/Kg	5		6020A	Total/NA
Barium	302		1.72	0.591	mg/Kg	5		6020A	Total/NA
Chromium	1.94		1.72	0.233	mg/Kg	5		6020A	Total/NA
Copper	1.46	J	1.72	0.500	mg/Kg	5		6020A	Total/NA
Iron	1570		8.62	3.55	mg/Kg	5		6020A	Total/NA
Manganese	16.1		0.862	0.184	mg/Kg	5		6020A	Total/NA
Lead	1.05		0.862	0.273	mg/Kg	5		6020A	Total/NA
Uranium	0.484		0.431	0.121	mg/Kg	5		6020A	Total/NA
Zinc	4.14		1.72	0.504	mg/Kg	5		6020A	Total/NA
Mercury	0.00991	J	0.0185	0.00829	mg/Kg	1		7471B	Total/NA
Cyanide, Total	102		58.8	29.2	ug/Kg	1		9012B	Total/NA
pH	8.5	HF			SU	1		9045D	Soluble
Total Dissolved Solids	105		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell17-Square 6-S-3-4-240717

Lab Sample ID: 860-78488-1

Date Collected: 07/17/24 09:40

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.49	U	50.3	5.49	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Acrylonitrile	8.01	U	20.1	8.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Benzene	0.385	U	1.01	0.385	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Bromodichloromethane	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Tribromomethane	2.22	U	5.03	2.22	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Bromomethane	0.935	U	5.03	0.935	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Methyl tert-butyl ether	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Carbon tetrachloride	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Monochlorobenzene	0.627	U	5.03	0.627	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Chloroform	0.528	U	5.03	0.528	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Chloromethane	0.944	U	5.03	0.944	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,2-Dibromoethane	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,2-Dichlorobenzene	1.46	U	5.03	1.46	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,3-Dichlorobenzene	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,4-Dichlorobenzene	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Dichlorodifluoromethane	1.92	U	5.03	1.92	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,1-Dichloroethane	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,2-Dichloroethane	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,1-Dichloroethene	0.577	U	5.03	0.577	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
cis-1,2-Dichloroethene	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
trans-1,2-Dichloroethene	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,2-Dichloropropane	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
cis-1,3-Dichloropropene	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
trans-1,3-Dichloropropene	1.68	U	5.03	1.68	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,1-Dichloropropene	0.518	U	5.03	0.518	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,4-Dioxane	24.2	U	101	24.2	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Ethylbenzene	0.306	U	1.01	0.306	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Methylene Chloride	8.47	U	20.1	8.47	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Styrene	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,1,2,2-Tetrachloroethane	0.355	U	5.03	0.355	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Tetrachloroethene	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Toluene	1.22	U	5.03	1.22	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
m,p-Xylenes	0.000436	U	0.00201	0.000436	mg/Kg		07/19/24 10:33	07/19/24 13:13	1
1,2,4-Trichlorobenzene	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,1,1-Trichloroethane	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,1,2-Trichloroethane	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Trichloroethene	1.01	U	5.03	1.01	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
o-Xylene	0.000318	U	0.00101	0.000318	mg/Kg		07/19/24 10:33	07/19/24 13:13	1
Trichlorofluoromethane	1.79	U	5.03	1.79	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Vinyl chloride	0.627	U	5.03	0.627	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
Xylenes, Total	0.436	U	2.01	0.436	ug/Kg		07/19/24 10:33	07/19/24 13:13	1
1,3-Dichloropropene, Total	1.68	U	5.03	1.68	ug/Kg		07/19/24 10:33	07/19/24 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	87		53 - 142	07/19/24 10:33	07/19/24 13:13	1
Toluene-d8 (Surr)	96		70 - 130	07/19/24 10:33	07/19/24 13:13	1
4-Bromofluorobenzene (Surr)	98		68 - 152	07/19/24 10:33	07/19/24 13:13	1
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	07/19/24 10:33	07/19/24 13:13	1

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell17-Square 6-S-3-4-240717

Lab Sample ID: 860-78488-1

Date Collected: 07/17/24 09:40

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U H	0.00500	0.00250	mg/Kg		07/23/24 10:58	07/23/24 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144				07/23/24 10:58	07/23/24 16:31	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 10:44	07/23/24 18:54	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell17-Square 6-S-3-4-240717

Lab Sample ID: 860-78488-1

Date Collected: 07/17/24 09:40

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/19/24 10:44	07/23/24 18:54	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 10:44	07/23/24 18:54	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 10:44	07/23/24 18:54	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.666	U	mg/Kg			542-88-1	07/19/24 10:44	07/23/24 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	55		30 - 115	07/19/24 10:44	07/23/24 18:54	1
2-Fluorophenol	66		25 - 121	07/19/24 10:44	07/23/24 18:54	1
2,4,6-Tribromophenol	16	X	19 - 122	07/19/24 10:44	07/23/24 18:54	1
Nitrobenzene-d5	50		23 - 129	07/19/24 10:44	07/23/24 18:54	1
Phenol-d5 (Surr)	52		24 - 113	07/19/24 10:44	07/23/24 18:54	1
p-Terphenyl-d14 (Surr)	77		18 - 137	07/19/24 10:44	07/23/24 18:54	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.834	0.254	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Aldrin	0.187	U	0.834	0.187	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Hexachlorocyclohexane, alpha-	0.163	U	0.834	0.163	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Hexachlorocyclohexane, beta-	0.156	U	0.834	0.156	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Chlordane (technical)	12.1	U	41.7	12.1	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Hexachlorocyclohexane, delta-	0.344	U	0.834	0.344	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Dieldrin	0.170	U	0.834	0.170	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Endosulfan I	0.202	U	0.834	0.202	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Endosulfan II	0.247	U	0.834	0.247	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Endosulfan sulfate	0.276	U	0.834	0.276	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Endrin	0.291	U	0.834	0.291	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Endrin aldehyde	0.248	U	0.834	0.248	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Hexachlorocyclohexane, gamma-	0.158	U	0.834	0.158	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Heptachlor	0.215	U	0.834	0.215	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Heptachlor epoxide	0.183	U	0.834	0.183	ug/Kg		07/19/24 09:45	07/24/24 12:18	1
Toxaphene	9.79	U	16.7	9.79	ug/Kg		07/19/24 09:45	07/24/24 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		35 - 135	07/19/24 09:45	07/24/24 12:18	1
DCB Decachlorobiphenyl (Surr)	79		25 - 143	07/19/24 09:45	07/24/24 12:18	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:05	1
Aroclor 1221	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:05	1
Aroclor 1232	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:05	1
Aroclor 1242	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:05	1
Aroclor 1248	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:05	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell17-Square 6-S-3-4-240717

Lab Sample ID: 860-78488-1

Date Collected: 07/17/24 09:40

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 16:05	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		35 - 140				07/19/24 09:45	07/19/24 16:05	1
DCB Decachlorobiphenyl (Surr)	124		37 - 142				07/19/24 09:45	07/19/24 16:05	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0212	U	0.0935	0.0212	mg/Kg		07/23/24 18:08	07/25/24 03:17	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0402	U	0.187	0.0402	mg/Kg		07/23/24 18:08	07/25/24 03:17	1
2,4,6-Trinitrotoluene	0.0287	U	0.0935	0.0287	mg/Kg		07/23/24 18:08	07/25/24 03:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122				07/23/24 18:08	07/25/24 03:17	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	402		9.94	4.97	mg/Kg		07/24/24 11:29	07/24/24 22:07	1
Nitrate as N	51.8		0.994	0.688	mg/Kg		07/24/24 11:29	07/24/24 22:07	1
Fluoride	2.20	J	4.97	0.994	mg/Kg		07/24/24 11:29	07/24/24 22:07	1
Nitrite as N	4.57		0.994	0.499	mg/Kg		07/24/24 11:29	07/24/24 22:07	1
Nitrate Nitrite as N	56.3		0.994	0.499	mg/Kg		07/24/24 11:29	07/24/24 22:07	1
Sulfate	140		9.94	4.29	mg/Kg		07/24/24 11:29	07/24/24 22:07	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.365	J	0.847	0.203	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Arsenic	2.77		1.69	0.436	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Barium	75.2		1.69	0.581	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Beryllium	0.502	J	0.847	0.214	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Cadmium	0.226	U	0.847	0.226	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Chromium	11.7		1.69	0.229	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Copper	5.53		1.69	0.492	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Iron	10000		169	69.8	mg/Kg		07/29/24 09:29	07/30/24 10:40	100
Manganese	133		0.847	0.181	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Lead	5.72		0.847	0.269	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Antimony	1.82		1.69	0.903	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Selenium	0.991		0.847	0.400	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Thallium	0.228	U	0.847	0.228	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Uranium	0.276	J	0.424	0.119	mg/Kg		07/29/24 09:29	07/29/24 20:39	5
Zinc	24.8		1.69	0.496	mg/Kg		07/29/24 09:29	07/29/24 20:39	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0131	J	0.0192	0.00861	mg/Kg		07/25/24 06:51	07/25/24 19:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	48.3	J	60.0	29.8	ug/Kg		07/25/24 17:39	07/25/24 19:29	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell17-Square 6-S-3-4-240717

Lab Sample ID: 860-78488-1

Date Collected: 07/17/24 09:40

Matrix: Solid

Date Received: 07/18/24 10:03

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.6	HF			SU			07/28/24 20:09	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	122		5.00	5.00	mg/L			07/30/24 10:18	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.707		0.120	0.139	1.00	0.0372	pCi/g	07/24/24 12:19	08/14/24 22:31	1
Radium-228	0.567		0.150	0.160		0.0801	pCi/g	07/24/24 12:19	08/14/24 22:31	1
Combined Radium 226 + 228	1.27		0.192	0.212		0.0801	pCi/g	07/24/24 12:19	08/14/24 22:31	1

Client Sample ID: Cell17-Square 6-S-3-4-240717

Lab Sample ID: 860-78488-1

Date Collected: 07/17/24 09:40

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 95.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.2	U	67.1	12.2	ug/Kg	✧	07/22/24 09:57	07/23/24 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	81		30 - 164				07/22/24 09:57	07/23/24 14:25	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.62	U	10.5	2.62	mg/Kg	✧	07/23/24 13:01	07/25/24 04:18	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				07/23/24 13:01	07/25/24 04:18	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.24	J b	8.53	2.53	mg/Kg	✧	07/24/24 07:31	07/25/24 16:53	1
C28-C36	13.2	J b	17.2	8.63	mg/Kg	✧	07/24/24 07:31	07/25/24 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	97		50 - 126				07/24/24 07:31	07/25/24 16:53	1
2-Fluorobiphenyl	71		40 - 133				07/24/24 07:31	07/25/24 16:53	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0881	U	0.209	0.0881	ug/Kg	✧	07/29/24 08:34	07/30/24 16:13	1
Perfluorohexanesulfonic acid (PFHxS)	0.0225	U	0.209	0.0225	ug/Kg	✧	07/29/24 08:34	07/30/24 16:13	1
Perfluorooctanesulfonic acid (PFOS)	0.0293	U	0.209	0.0293	ug/Kg	✧	07/29/24 08:34	07/30/24 16:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C8 PFOA	80.4		40 - 130				07/29/24 08:34	07/30/24 16:13	1
¹³ C3 PFHxS	75.9		40 - 130				07/29/24 08:34	07/30/24 16:13	1
¹³ C8 PFOS	69.6		40 - 130				07/29/24 08:34	07/30/24 16:13	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell17-Square 6-S-3-4-240717

Lab Sample ID: 860-78488-1

Date Collected: 07/17/24 09:40

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 95.8

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.258	J b	0.812	0.0893	ug/Kg	☆	07/23/24 12:18	07/24/24 15:53	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.0887	J	0.0954	0.0572	mg/Kg	☆		07/25/24 00:18	1

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.43	U	49.8	5.43	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Acrylonitrile	7.93	U	19.9	7.93	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Benzene	0.381	U	0.996	0.381	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Bromodichloromethane	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Tribromomethane	2.20	U	4.98	2.20	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Bromomethane	0.926	U	4.98	0.926	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Methyl tert-butyl ether	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Carbon tetrachloride	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Monochlorobenzene	0.621	U	4.98	0.621	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Chloroform	0.522	U	4.98	0.522	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Chloromethane	0.934	U	4.98	0.934	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,2-Dibromoethane	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,2-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,3-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,4-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Dichlorodifluoromethane	1.91	U	4.98	1.91	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,1-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,2-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,1-Dichloroethene	0.571	U	4.98	0.571	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
cis-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
trans-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,2-Dichloropropane	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
cis-1,3-Dichloropropene	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
trans-1,3-Dichloropropene	1.66	U	4.98	1.66	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,1-Dichloropropene	0.513	U	4.98	0.513	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,4-Dioxane	23.9	U	99.6	23.9	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Ethylbenzene	0.303	U	0.996	0.303	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Methylene Chloride	8.39	U	19.9	8.39	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Styrene	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,1,2,2-Tetrachloroethane	0.351	U	4.98	0.351	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Tetrachloroethene	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Toluene	1.21	U	4.98	1.21	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
m,p-Xylenes	0.000431	U	0.00199	0.000431	mg/Kg		07/19/24 10:33	07/19/24 13:34	1
1,2,4-Trichlorobenzene	1.00	U	4.98	1.00	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,1,1-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,1,2-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Trichloroethene	0.996	U	4.98	0.996	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
o-Xylene	0.000315	U	0.000996	0.000315	mg/Kg		07/19/24 10:33	07/19/24 13:34	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.78	U	4.98	1.78	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Vinyl chloride	0.621	U	4.98	0.621	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
Xylenes, Total	0.431	U	1.99	0.431	ug/Kg		07/19/24 10:33	07/19/24 13:34	1
1,3-Dichloropropene, Total	1.66	U	4.98	1.66	ug/Kg		07/19/24 10:33	07/19/24 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	85		53 - 142	07/19/24 10:33	07/19/24 13:34	1
Toluene-d8 (Surr)	96		70 - 130	07/19/24 10:33	07/19/24 13:34	1
4-Bromofluorobenzene (Surr)	96		68 - 152	07/19/24 10:33	07/19/24 13:34	1
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	07/19/24 10:33	07/19/24 13:34	1

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U H	0.00499	0.00250	mg/Kg		07/23/24 10:58	07/23/24 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144	07/23/24 10:58	07/23/24 16:56	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
2,4-Dinitrotoluene	12.8	U	167	12.8	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Dinitrophenols	24.2	U	334	24.2	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
2,4-Dichlorophenol	17.5	U	167	17.5	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Dichlorobenzidine, 3,3'-	15.4	U *	334	15.4	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
4,6-Dinitro-2-methylphenol	12.7	U	334	12.7	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Benzo[a]anthracene	14.1	U *	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Benzo[b]fluoranthene	12.6	U *	167	12.6	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Benzo[k]fluoranthene	19.4	U *	167	19.4	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Benzo[g,h,i]perylene	15.4	U *	167	15.4	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Benzo[a]pyrene	17.2	U *	167	17.2	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Di (2-ethylhexyl)phthalate	167	U *	334	167	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Chrysene	16.5	U *	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Dibutylphthalate	16.1	U	167	16.1	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Dibenz(a,h)anthracene	12.7	U *	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Fluorene	13.9	U	167	13.9	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 10:44	07/23/24 19:18	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	13.9	U	167	13.9	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Indeno[1,2,3-cd]pyrene	13.5	U *	167	13.5	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Pentachlorophenol	12.1	U	334	12.1	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Pyrene	14.6	U *	167	14.6	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Benzidine	12.1	U *	334	12.1	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Phenol	0.0150	U	0.334	0.0150	mg/Kg		07/19/24 10:44	07/23/24 19:18	1
N-Nitrosodimethylamine	16.8	U	167	16.8	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Atrazine	16.5	U	334	16.5	ug/Kg		07/19/24 10:44	07/23/24 19:18	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	334	333	ug/Kg		07/19/24 10:44	07/23/24 19:18	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.668	U	mg/Kg			542-88-1	07/19/24 10:44	07/23/24 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		30 - 115	07/19/24 10:44	07/23/24 19:18	1
2-Fluorophenol	55		25 - 121	07/19/24 10:44	07/23/24 19:18	1
2,4,6-Tribromophenol	13	X	19 - 122	07/19/24 10:44	07/23/24 19:18	1
Nitrobenzene-d5	45		23 - 129	07/19/24 10:44	07/23/24 19:18	1
Phenol-d5 (Surr)	48		24 - 113	07/19/24 10:44	07/23/24 19:18	1
p-Terphenyl-d14 (Surr)	79	*	18 - 137	07/19/24 10:44	07/23/24 19:18	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.834	0.254	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Aldrin	0.187	U	0.834	0.187	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Hexachlorocyclohexane, alpha-	0.163	U	0.834	0.163	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Hexachlorocyclohexane, beta-	0.155	U	0.834	0.155	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Chlordane (technical)	12.1	U	41.7	12.1	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Hexachlorocyclohexane, delta-	0.344	U	0.834	0.344	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Dieldrin	0.170	U	0.834	0.170	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Endosulfan I	0.202	U	0.834	0.202	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Endosulfan II	0.247	U	0.834	0.247	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Endosulfan sulfate	0.276	U	0.834	0.276	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Endrin	0.291	U	0.834	0.291	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Endrin aldehyde	0.248	U	0.834	0.248	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Hexachlorocyclohexane, gamma-	0.158	U	0.834	0.158	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Heptachlor	0.215	U	0.834	0.215	ug/Kg		07/19/24 09:45	07/24/24 12:35	1
Heptachlor epoxide	0.183	U	0.834	0.183	ug/Kg		07/19/24 09:45	07/24/24 12:35	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	9.79	U	16.7	9.79	ug/Kg		07/19/24 09:45	07/24/24 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		35 - 135	07/19/24 09:45	07/24/24 12:35	1
DCB Decachlorobiphenyl (Surr)	86		25 - 143	07/19/24 09:45	07/24/24 12:35	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:18	1
Aroclor 1221	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:18	1
Aroclor 1232	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:18	1
Aroclor 1242	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:18	1
Aroclor 1248	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:18	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 16:18	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		35 - 140	07/19/24 09:45	07/19/24 16:18	1
DCB Decachlorobiphenyl (Surr)	137		37 - 142	07/19/24 09:45	07/19/24 16:18	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0215	U	0.0945	0.0215	mg/Kg		07/23/24 18:08	07/25/24 03:40	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0406	U	0.189	0.0406	mg/Kg		07/23/24 18:08	07/25/24 03:40	1
2,4,6-Trinitrotoluene	0.0290	U	0.0945	0.0290	mg/Kg		07/23/24 18:08	07/25/24 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	07/23/24 18:08	07/25/24 03:40	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.98	U	9.96	4.98	mg/Kg		07/24/24 11:29	07/24/24 22:14	1
Nitrate as N	6.52		0.996	0.689	mg/Kg		07/24/24 11:29	07/24/24 22:14	1
Fluoride	3.80	J	4.98	0.996	mg/Kg		07/24/24 11:29	07/24/24 22:14	1
Nitrite as N	4.21		0.996	0.500	mg/Kg		07/24/24 11:29	07/24/24 22:14	1
Nitrate Nitrite as N	10.7		0.996	0.500	mg/Kg		07/24/24 11:29	07/24/24 22:14	1
Sulfate	62.8		9.96	4.30	mg/Kg		07/24/24 11:29	07/24/24 22:14	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.199	U	0.833	0.199	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Arsenic	3.47		1.67	0.429	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Barium	245		1.67	0.571	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Beryllium	0.326	J	0.833	0.211	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Cadmium	0.223	U	0.833	0.223	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Chromium	2.93		1.67	0.225	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Copper	1.51	J	1.67	0.483	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Iron	2820		8.33	3.43	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Manganese	33.5		0.833	0.178	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Lead	2.70		0.833	0.264	mg/Kg		07/29/24 09:29	07/29/24 20:55	5

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Selenium	0.471	J	0.833	0.394	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Thallium	0.225	U	0.833	0.225	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Uranium	0.404	J	0.417	0.117	mg/Kg		07/29/24 09:29	07/29/24 20:55	5
Zinc	7.13		1.67	0.488	mg/Kg		07/29/24 09:29	07/29/24 20:55	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0117	J	0.0182	0.00814	mg/Kg		07/25/24 06:51	07/25/24 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	87.7		60.0	29.8	ug/Kg		07/25/24 17:39	07/25/24 19:33	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.3	HF			SU			07/26/24 19:11	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	65.5		5.00	5.00	mg/L			07/30/24 10:18	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.807		0.159	0.178	1.00	0.105	pCi/g	07/24/24 12:19	08/15/24 10:35	1
Radium-228	0.205	U	0.207	0.208		0.257	pCi/g	07/24/24 12:19	08/15/24 10:35	1
Combined Radium 226 + 228	1.01		0.261	0.274		0.257	pCi/g	07/24/24 12:19	08/15/24 10:35	1

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 93.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.6	U	69.2	12.6	ug/Kg	☼	07/22/24 09:57	07/23/24 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	83		30 - 164				07/22/24 09:57	07/23/24 14:52	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.66	U	10.7	2.66	mg/Kg	☼	07/23/24 13:01	07/25/24 04:51	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				07/23/24 13:01	07/25/24 04:51	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.63	J b	8.60	2.55	mg/Kg	☼	07/24/24 07:31	07/25/24 18:05	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C28-C36	11.5	J b	17.3	8.70	mg/Kg	☆	07/24/24 07:31	07/25/24 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	126		50 - 126	07/24/24 07:31	07/25/24 18:05	1
2-Fluorobiphenyl	95		40 - 133	07/24/24 07:31	07/25/24 18:05	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0823	U	0.195	0.0823	ug/Kg	☆	07/29/24 08:34	07/30/24 16:32	1
Perfluorohexanesulfonic acid (PFHxS)	0.0211	U	0.195	0.0211	ug/Kg	☆	07/29/24 08:34	07/30/24 16:32	1
Perfluorooctanesulfonic acid (PFOS)	0.0274	U	0.195	0.0274	ug/Kg	☆	07/29/24 08:34	07/30/24 16:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	74.1		40 - 130	07/29/24 08:34	07/30/24 16:32	1
13C3 PFHxS	80.5		40 - 130	07/29/24 08:34	07/30/24 16:32	1
13C8 PFOS	70.4		40 - 130	07/29/24 08:34	07/30/24 16:32	1

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.368	J b	0.843	0.0927	ug/Kg	☆	07/23/24 12:18	07/24/24 15:58	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.0813	J	0.103	0.0617	mg/Kg	☆		07/25/24 00:21	1

Client Sample ID: Cell18-Square 142-S-3-4-240717

Lab Sample ID: 860-78488-3

Date Collected: 07/17/24 12:00

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.42	U	49.7	5.42	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Acrylonitrile	7.91	U	19.9	7.91	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Benzene	0.380	U	0.994	0.380	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Bromodichloromethane	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Tribromomethane	2.20	U	4.97	2.20	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Bromomethane	0.924	U	4.97	0.924	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Methyl tert-butyl ether	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Carbon tetrachloride	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Monochlorobenzene	0.619	U	4.97	0.619	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Chloroform	0.521	U	4.97	0.521	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Chloromethane	0.932	U	4.97	0.932	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,2-Dibromoethane	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,2-Dichlorobenzene	1.44	U	4.97	1.44	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,3-Dichlorobenzene	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,4-Dichlorobenzene	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Dichlorodifluoromethane	1.90	U	4.97	1.90	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,1-Dichloroethane	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,2-Dichloroethane	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,1-Dichloroethene	0.570	U	4.97	0.570	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
cis-1,2-Dichloroethene	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
trans-1,2-Dichloroethene	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 142-S-3-4-240717

Lab Sample ID: 860-78488-3

Date Collected: 07/17/24 12:00

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
cis-1,3-Dichloropropene	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
trans-1,3-Dichloropropene	1.66	U	4.97	1.66	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,1-Dichloropropene	0.512	U	4.97	0.512	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,4-Dioxane	23.9	U	99.4	23.9	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Ethylbenzene	0.303	U	0.994	0.303	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Methylene Chloride	8.37	U	19.9	8.37	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Styrene	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,1,2,2-Tetrachloroethane	0.351	U	4.97	0.351	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Tetrachloroethene	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Toluene	1.20	U	4.97	1.20	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
m,p-Xylenes	0.000430	U	0.00199	0.000430	mg/Kg		07/19/24 10:33	07/19/24 13:56	1
1,2,4-Trichlorobenzene	1.00	U	4.97	1.00	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,1,1-Trichloroethane	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,1,2-Trichloroethane	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Trichloroethene	0.994	U	4.97	0.994	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
o-Xylene	0.000314	U	0.000994	0.000314	mg/Kg		07/19/24 10:33	07/19/24 13:56	1
Trichlorofluoromethane	1.77	U	4.97	1.77	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Vinyl chloride	0.620	U	4.97	0.620	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
Xylenes, Total	0.430	U	1.99	0.430	ug/Kg		07/19/24 10:33	07/19/24 13:56	1
1,3-Dichloropropene, Total	1.66	U	4.97	1.66	ug/Kg		07/19/24 10:33	07/19/24 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	85		53 - 142	07/19/24 10:33	07/19/24 13:56	1
Toluene-d8 (Surr)	97		70 - 130	07/19/24 10:33	07/19/24 13:56	1
4-Bromofluorobenzene (Surr)	96		68 - 152	07/19/24 10:33	07/19/24 13:56	1
1,2-Dichloroethane-d4 (Surr)	105		56 - 150	07/19/24 10:33	07/19/24 13:56	1

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00248	U H	0.00495	0.00248	mg/Kg		07/23/24 10:58	07/23/24 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144	07/23/24 10:58	07/23/24 17:21	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 10:44	07/23/24 19:43	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 142-S-3-4-240717 Lab Sample ID: 860-78488-3
Date Collected: 07/17/24 12:00 Matrix: Solid
Date Received: 07/18/24 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/19/24 10:44	07/23/24 19:43	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 10:44	07/23/24 19:43	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 10:44	07/23/24 19:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.666	U	mg/Kg			542-88-1	07/19/24 10:44	07/23/24 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		30 - 115	07/19/24 10:44	07/23/24 19:43	1
2-Fluorophenol	75		25 - 121	07/19/24 10:44	07/23/24 19:43	1
2,4,6-Tribromophenol	15	X	19 - 122	07/19/24 10:44	07/23/24 19:43	1
Nitrobenzene-d5	58		23 - 129	07/19/24 10:44	07/23/24 19:43	1
Phenol-d5 (Surr)	63		24 - 113	07/19/24 10:44	07/23/24 19:43	1
p-Terphenyl-d14 (Surr)	75		18 - 137	07/19/24 10:44	07/23/24 19:43	1

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 142-S-3-4-240717

Lab Sample ID: 860-78488-3

Date Collected: 07/17/24 12:00

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Aldrin	0.186	U	0.833	0.186	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Hexachlorocyclohexane, alpha-	0.163	U	0.833	0.163	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Hexachlorocyclohexane, beta-	0.155	U	0.833	0.155	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Chlordane (technical)	12.0	U	41.6	12.0	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Hexachlorocyclohexane, delta-	0.343	U	0.833	0.343	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Endosulfan II	0.247	U	0.833	0.247	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Endrin	0.291	U	0.833	0.291	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Hexachlorocyclohexane, gamma-	0.158	U	0.833	0.158	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Heptachlor	0.214	U	0.833	0.214	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Heptachlor epoxide	0.182	U	0.833	0.182	ug/Kg		07/19/24 09:45	07/24/24 13:10	1
Toxaphene	9.77	U	16.6	9.77	ug/Kg		07/19/24 09:45	07/24/24 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		35 - 135	07/19/24 09:45	07/24/24 13:10	1
DCB Decachlorobiphenyl (Surr)	101		25 - 143	07/19/24 09:45	07/24/24 13:10	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 16:30	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 16:30	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 16:30	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 16:30	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 16:30	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		07/19/24 09:45	07/19/24 16:30	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		07/19/24 09:45	07/19/24 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		35 - 140	07/19/24 09:45	07/19/24 16:30	1
DCB Decachlorobiphenyl (Surr)	135		37 - 142	07/19/24 09:45	07/19/24 16:30	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0218	U	0.0962	0.0218	mg/Kg		07/23/24 18:08	07/25/24 04:26	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0413	U	0.192	0.0413	mg/Kg		07/23/24 18:08	07/25/24 04:26	1
2,4,6-Trinitrotoluene	0.0295	U	0.0962	0.0295	mg/Kg		07/23/24 18:08	07/25/24 04:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	107		83 - 122	07/23/24 18:08	07/25/24 04:26	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.96	U	9.92	4.96	mg/Kg		07/24/24 11:29	07/24/24 22:21	1
Nitrate as N	8.09		0.992	0.687	mg/Kg		07/24/24 11:29	07/24/24 22:21	1
Fluoride	7.61		4.96	0.992	mg/Kg		07/24/24 11:29	07/24/24 22:21	1
Nitrite as N	4.38		0.992	0.498	mg/Kg		07/24/24 11:29	07/24/24 22:21	1

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 142-S-3-4-240717

Lab Sample ID: 860-78488-3

Date Collected: 07/17/24 12:00

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 9056A - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	12.5		0.992	0.498	mg/Kg		07/24/24 11:29	07/24/24 22:21	1
Sulfate	71.9		9.92	4.29	mg/Kg		07/24/24 11:29	07/24/24 22:21	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.199	U	0.833	0.199	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Arsenic	2.93		1.67	0.429	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Barium	383		1.67	0.571	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Beryllium	0.211	U	0.833	0.211	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Cadmium	0.223	U	0.833	0.223	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Chromium	2.74		1.67	0.225	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Copper	1.47	J	1.67	0.483	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Iron	2460		8.33	3.43	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Manganese	20.3		0.833	0.178	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Lead	2.08		0.833	0.264	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Antimony	0.888	U	1.67	0.888	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Selenium	0.394	U	0.833	0.394	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Thallium	0.225	U	0.833	0.225	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Uranium	0.374	J	0.417	0.117	mg/Kg		07/29/24 09:29	07/29/24 20:57	5
Zinc	5.59		1.67	0.488	mg/Kg		07/29/24 09:29	07/29/24 20:57	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0158	J	0.0200	0.00895	mg/Kg		07/25/24 06:51	07/25/24 19:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	66.8		58.8	29.2	ug/Kg		07/25/24 17:39	07/25/24 19:35	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.4	HF			SU			07/28/24 20:09	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	111		5.00	5.00	mg/L			07/30/24 10:18	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	1.50		0.191	0.242	1.00	0.0709	pCi/g	07/24/24 12:19	08/15/24 14:01	1
Radium-228	0.181	U	0.154	0.155		0.285	pCi/g	07/24/24 12:19	08/15/24 14:01	1
Combined Radium 226 + 228	1.68		0.245	0.287		0.285	pCi/g	07/24/24 12:19	08/15/24 14:01	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 142-S-3-4-240717

Lab Sample ID: 860-78488-3

Date Collected: 07/17/24 12:00

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.5	U	68.9	12.5	ug/Kg	☆	07/22/24 09:57	07/23/24 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	85		30 - 164				07/22/24 09:57	07/23/24 15:19	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.68	U	10.7	2.68	mg/Kg	☆	07/23/24 13:01	07/25/24 05:25	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/23/24 13:01	07/25/24 05:25	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.64	U	8.90	2.64	mg/Kg	☆	07/24/24 07:31	07/25/24 18:29	1
C28-C36	9.01	U	17.9	9.01	mg/Kg	☆	07/24/24 07:31	07/25/24 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	94		50 - 126				07/24/24 07:31	07/25/24 18:29	1
2-Fluorobiphenyl	65		40 - 133				07/24/24 07:31	07/25/24 18:29	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.112	J	0.180	0.0760	ug/Kg	☆	07/29/24 08:34	07/30/24 16:52	1
Perfluorohexanesulfonic acid (PFHxS)	0.0195	U	0.180	0.0195	ug/Kg	☆	07/29/24 08:34	07/30/24 16:52	1
Perfluorooctanesulfonic acid (PFOS)	0.0253	U	0.180	0.0253	ug/Kg	☆	07/29/24 08:34	07/30/24 16:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	85.9		40 - 130				07/29/24 08:34	07/30/24 16:52	1
13C3 PFHxS	70.0		40 - 130				07/29/24 08:34	07/30/24 16:52	1
13C8 PFOS	57.5		40 - 130				07/29/24 08:34	07/30/24 16:52	1

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.453	J b	0.902	0.0992	ug/Kg	☆	07/23/24 12:18	07/24/24 16:15	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.0708	J	0.118	0.0708	mg/Kg	☆		07/25/24 00:24	1

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.44	U	49.9	5.44	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Acrylonitrile	7.94	U	20.0	7.94	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Benzene	0.382	U	0.998	0.382	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Bromodichloromethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Tribromomethane	2.21	U	4.99	2.21	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Bromomethane	0.927	U	4.99	0.927	ug/Kg		07/19/24 10:33	07/19/24 14:17	1

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Carbon tetrachloride	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Monochlorobenzene	0.622	U	4.99	0.622	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Chloroform	0.523	U	4.99	0.523	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Chloromethane	0.936	U	4.99	0.936	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,2-Dibromoethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,2-Dichlorobenzene	1.45	U	4.99	1.45	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,3-Dichlorobenzene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,4-Dichlorobenzene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Dichlorodifluoromethane	1.91	U	4.99	1.91	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,1-Dichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,2-Dichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,1-Dichloroethene	0.572	U	4.99	0.572	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
cis-1,2-Dichloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
trans-1,2-Dichloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,2-Dichloropropane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
cis-1,3-Dichloropropene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
trans-1,3-Dichloropropene	1.66	U	4.99	1.66	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,1-Dichloropropene	0.514	U	4.99	0.514	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,4-Dioxane	24.0	U	99.8	24.0	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Ethylbenzene	0.304	U	0.998	0.304	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Methylene Chloride	8.40	U	20.0	8.40	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Styrene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,1,2,2-Tetrachloroethane	0.352	U	4.99	0.352	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Tetrachloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Toluene	1.21	U	4.99	1.21	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
m,p-Xylenes	0.000432	U	0.00200	0.000432	mg/Kg		07/19/24 10:33	07/19/24 14:17	1
1,2,4-Trichlorobenzene	1.00	U	4.99	1.00	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,1,1-Trichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,1,2-Trichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Trichloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
o-Xylene	0.000315	U	0.000998	0.000315	mg/Kg		07/19/24 10:33	07/19/24 14:17	1
Trichlorofluoromethane	1.78	U	4.99	1.78	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Vinyl chloride	0.622	U	4.99	0.622	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
Xylenes, Total	0.432	U	2.00	0.432	ug/Kg		07/19/24 10:33	07/19/24 14:17	1
1,3-Dichloropropene, Total	1.66	U	4.99	1.66	ug/Kg		07/19/24 10:33	07/19/24 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	86		53 - 142	07/19/24 10:33	07/19/24 14:17	1
Toluene-d8 (Surr)	97		70 - 130	07/19/24 10:33	07/19/24 14:17	1
4-Bromofluorobenzene (Surr)	97		68 - 152	07/19/24 10:33	07/19/24 14:17	1
1,2-Dichloroethane-d4 (Surr)	102		56 - 150	07/19/24 10:33	07/19/24 14:17	1

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00249	U H	0.00498	0.00249	mg/Kg		07/23/24 10:58	07/23/24 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144	07/23/24 10:58	07/23/24 17:47	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/19/24 10:44	07/24/24 14:11	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 10:44	07/24/24 14:11	1

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 10:44	07/24/24 14:11	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 10:44	07/24/24 14:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.666	U	mg/Kg			542-88-1	07/19/24 10:44	07/24/24 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		30 - 115	07/19/24 10:44	07/24/24 14:11	1
2-Fluorophenol	79		25 - 121	07/19/24 10:44	07/24/24 14:11	1
2,4,6-Tribromophenol	98		19 - 122	07/19/24 10:44	07/24/24 14:11	1
Nitrobenzene-d5	85		23 - 129	07/19/24 10:44	07/24/24 14:11	1
Phenol-d5 (Surr)	76		24 - 113	07/19/24 10:44	07/24/24 14:11	1
p-Terphenyl-d14 (Surr)	83		18 - 137	07/19/24 10:44	07/24/24 14:11	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Aldrin	0.186	U	0.832	0.186	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Hexachlorocyclohexane, alpha-	0.162	U	0.832	0.162	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Hexachlorocyclohexane, beta-	0.155	U	0.832	0.155	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Chlordane (technical)	12.0	U	41.6	12.0	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Hexachlorocyclohexane, delta-	0.343	U	0.832	0.343	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Endosulfan II	0.246	U	0.832	0.246	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Endrin	0.290	U	0.832	0.290	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Hexachlorocyclohexane, gamma-	0.158	U	0.832	0.158	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Heptachlor	0.214	U	0.832	0.214	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Heptachlor epoxide	0.182	U	0.832	0.182	ug/Kg		07/19/24 09:45	07/24/24 13:26	1
Toxaphene	9.76	U	16.6	9.76	ug/Kg		07/19/24 09:45	07/24/24 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		35 - 135	07/19/24 09:45	07/24/24 13:26	1
DCB Decachlorobiphenyl (Surr)	90		25 - 143	07/19/24 09:45	07/24/24 13:26	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		07/19/24 09:45	07/19/24 16:42	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		07/19/24 09:45	07/19/24 16:42	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		07/19/24 09:45	07/19/24 16:42	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		07/19/24 09:45	07/19/24 16:42	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		07/19/24 09:45	07/19/24 16:42	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		07/19/24 09:45	07/19/24 16:42	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		07/19/24 09:45	07/19/24 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		35 - 140	07/19/24 09:45	07/19/24 16:42	1
DCB Decachlorobiphenyl (Surr)	125		37 - 142	07/19/24 09:45	07/19/24 16:42	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0211	U	0.0929	0.0211	mg/Kg		07/23/24 18:08	07/25/24 04:49	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0400	U	0.186	0.0400	mg/Kg		07/23/24 18:08	07/25/24 04:49	1
2,4,6-Trinitrotoluene	0.0285	U	0.0929	0.0285	mg/Kg		07/23/24 18:08	07/25/24 04:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122				07/23/24 18:08	07/25/24 04:49	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		9.98	4.99	mg/Kg		07/24/24 11:29	07/24/24 22:28	1
Nitrate as N	10.9		0.998	0.691	mg/Kg		07/24/24 11:29	07/24/24 22:28	1
Fluoride	7.40		4.99	0.998	mg/Kg		07/24/24 11:29	07/24/24 22:28	1
Nitrite as N	5.21		0.998	0.501	mg/Kg		07/24/24 11:29	07/24/24 22:28	1
Nitrate Nitrite as N	16.1		0.998	0.501	mg/Kg		07/24/24 11:29	07/24/24 22:28	1
Sulfate	149		9.98	4.31	mg/Kg		07/24/24 11:29	07/24/24 22:28	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.203	U	0.847	0.203	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Arsenic	2.93		1.69	0.436	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Barium	216		1.69	0.581	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Beryllium	0.214	U	0.847	0.214	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Cadmium	0.226	U	0.847	0.226	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Chromium	3.45		1.69	0.229	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Copper	1.63	J	1.69	0.492	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Iron	3080		8.47	3.49	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Manganese	36.8		0.847	0.181	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Lead	2.26		0.847	0.269	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Antimony	0.903	U	1.69	0.903	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Selenium	0.400	U	0.847	0.400	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Thallium	0.228	U	0.847	0.228	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Uranium	0.428		0.424	0.119	mg/Kg		07/29/24 09:29	07/29/24 20:59	5
Zinc	7.41		1.69	0.496	mg/Kg		07/29/24 09:29	07/29/24 20:59	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0103	J	0.0189	0.00844	mg/Kg		07/25/24 06:51	07/25/24 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	80.1		60.0	29.8	ug/Kg		07/25/24 17:39	07/25/24 19:36	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.6	HF			SU			07/26/24 19:11	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	91.0		5.00	5.00	mg/L			07/30/24 10:18	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.838		0.159	0.180	1.00	0.153	pCi/g	07/24/24 12:19	08/15/24 14:05	1
Radium-228	0.274		0.116	0.119		0.0901	pCi/g	07/24/24 12:19	08/15/24 14:05	1
Combined Radium 226 + 228	1.11		0.197	0.216		0.153	pCi/g	07/24/24 12:19	08/15/24 14:05	1

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.8	U	70.3	12.8	ug/Kg	☆	07/22/24 09:57	07/23/24 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	83		30 - 164				07/22/24 09:57	07/23/24 15:45	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.72	U	10.9	2.72	mg/Kg	☆	07/23/24 13:01	07/25/24 05:58	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				07/23/24 13:01	07/25/24 05:58	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.62	U	8.85	2.62	mg/Kg	☆	07/24/24 07:31	07/25/24 18:53	1
C28-C36	8.95	U	17.8	8.95	mg/Kg	☆	07/24/24 07:31	07/25/24 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	101		50 - 126				07/24/24 07:31	07/25/24 18:53	1
2-Fluorobiphenyl	70		40 - 133				07/24/24 07:31	07/25/24 18:53	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0870	U	0.206	0.0870	ug/Kg	☆	07/29/24 08:34	07/30/24 17:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.0223	U	0.206	0.0223	ug/Kg	☆	07/29/24 08:34	07/30/24 17:11	1
Perfluorooctanesulfonic acid (PFOS)	0.0290	U	0.206	0.0290	ug/Kg	☆	07/29/24 08:34	07/30/24 17:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	82.1		40 - 130				07/29/24 08:34	07/30/24 17:11	1
13C3 PFHxS	75.7		40 - 130				07/29/24 08:34	07/30/24 17:11	1
13C8 PFOS	72.3		40 - 130				07/29/24 08:34	07/30/24 17:11	1

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.279	J b	0.854	0.0940	ug/Kg	☆	07/23/24 12:18	07/24/24 16:20	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.0701	U	0.117	0.0701	mg/Kg	☆		07/25/24 00:26	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 120-S-3-4-240717

Lab Sample ID: 860-78488-5

Date Collected: 07/17/24 14:00

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.44	U	49.9	5.44	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Acrylonitrile	7.94	U	20.0	7.94	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Benzene	0.382	U	0.998	0.382	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Bromodichloromethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Tribromomethane	2.21	U	4.99	2.21	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Bromomethane	0.927	U	4.99	0.927	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Methyl tert-butyl ether	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Carbon tetrachloride	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Monochlorobenzene	0.622	U	4.99	0.622	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Chloroform	0.523	U	4.99	0.523	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Chloromethane	0.936	U	4.99	0.936	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,2-Dibromoethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,2-Dichlorobenzene	1.45	U	4.99	1.45	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,3-Dichlorobenzene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,4-Dichlorobenzene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Dichlorodifluoromethane	1.91	U	4.99	1.91	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,1-Dichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,2-Dichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,1-Dichloroethene	0.572	U	4.99	0.572	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
cis-1,2-Dichloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
trans-1,2-Dichloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,2-Dichloropropane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
cis-1,3-Dichloropropene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
trans-1,3-Dichloropropene	1.66	U	4.99	1.66	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,1-Dichloropropene	0.514	U	4.99	0.514	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,4-Dioxane	24.0	U	99.8	24.0	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Ethylbenzene	0.304	U	0.998	0.304	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Methylene Chloride	8.40	U	20.0	8.40	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Styrene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,1,2,2-Tetrachloroethane	0.352	U	4.99	0.352	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Tetrachloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Toluene	1.21	U	4.99	1.21	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
m,p-Xylenes	0.000432	U	0.00200	0.000432	mg/Kg		07/19/24 10:33	07/19/24 14:38	1
1,2,4-Trichlorobenzene	1.00	U	4.99	1.00	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,1,1-Trichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,1,2-Trichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Trichloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
o-Xylene	0.000315	U	0.000998	0.000315	mg/Kg		07/19/24 10:33	07/19/24 14:38	1
Trichlorofluoromethane	1.78	U	4.99	1.78	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Vinyl chloride	0.622	U	4.99	0.622	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
Xylenes, Total	0.432	U	2.00	0.432	ug/Kg		07/19/24 10:33	07/19/24 14:38	1
1,3-Dichloropropene, Total	1.66	U	4.99	1.66	ug/Kg		07/19/24 10:33	07/19/24 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	85		53 - 142	07/19/24 10:33	07/19/24 14:38	1
Toluene-d8 (Surr)	97		70 - 130	07/19/24 10:33	07/19/24 14:38	1
4-Bromofluorobenzene (Surr)	96		68 - 152	07/19/24 10:33	07/19/24 14:38	1
1,2-Dichloroethane-d4 (Surr)	102		56 - 150	07/19/24 10:33	07/19/24 14:38	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 120-S-3-4-240717

Lab Sample ID: 860-78488-5

Date Collected: 07/17/24 14:00

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U H	0.00499	0.00250	mg/Kg		07/23/24 10:58	07/23/24 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144				07/23/24 10:58	07/23/24 18:12	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Dinitrophenols	24.2	U	334	24.2	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
2,4-Dichlorophenol	17.5	U	167	17.5	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Dichlorobenzidine, 3,3'-	15.4	U	334	15.4	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
4,6-Dinitro-2-methylphenol	12.7	U	334	12.7	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Di (2-ethylhexyl)phthalate	167	U	334	167	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Dibutylphthalate	16.1	U	167	16.1	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Pentachlorophenol	12.1	U	334	12.1	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 10:44	07/24/24 14:32	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 120-S-3-4-240717

Lab Sample ID: 860-78488-5

Date Collected: 07/17/24 14:00

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Benzidine	12.1	U	334	12.1	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Phenol	0.0150	U	0.334	0.0150	mg/Kg		07/19/24 10:44	07/24/24 14:32	1
N-Nitrosodimethylamine	16.8	U	167	16.8	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Atrazine	16.5	U	334	16.5	ug/Kg		07/19/24 10:44	07/24/24 14:32	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	334	333	ug/Kg		07/19/24 10:44	07/24/24 14:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.667	U	mg/Kg			542-88-1	07/19/24 10:44	07/24/24 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		30 - 115	07/19/24 10:44	07/24/24 14:32	1
2-Fluorophenol	80		25 - 121	07/19/24 10:44	07/24/24 14:32	1
2,4,6-Tribromophenol	100		19 - 122	07/19/24 10:44	07/24/24 14:32	1
Nitrobenzene-d5	86		23 - 129	07/19/24 10:44	07/24/24 14:32	1
Phenol-d5 (Surr)	76		24 - 113	07/19/24 10:44	07/24/24 14:32	1
p-Terphenyl-d14 (Surr)	85		18 - 137	07/19/24 10:44	07/24/24 14:32	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.835	0.254	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Aldrin	0.187	U	0.835	0.187	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Hexachlorocyclohexane, alpha-	0.163	U	0.835	0.163	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Hexachlorocyclohexane, beta-	0.156	U	0.835	0.156	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Chlordane (technical)	12.1	U	41.7	12.1	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Hexachlorocyclohexane, delta-	0.344	U	0.835	0.344	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Dieldrin	0.170	U	0.835	0.170	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Endosulfan I	0.202	U	0.835	0.202	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Endosulfan II	0.247	U	0.835	0.247	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Endosulfan sulfate	0.276	U	0.835	0.276	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Endrin	0.291	U	0.835	0.291	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Endrin aldehyde	0.248	U	0.835	0.248	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Hexachlorocyclohexane, gamma-	0.158	U	0.835	0.158	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Heptachlor	0.215	U	0.835	0.215	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Heptachlor epoxide	0.183	U	0.835	0.183	ug/Kg		07/19/24 09:45	07/24/24 13:44	1
Toxaphene	9.79	U	16.7	9.79	ug/Kg		07/19/24 09:45	07/24/24 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		35 - 135	07/19/24 09:45	07/24/24 13:44	1
DCB Decachlorobiphenyl (Surr)	85		25 - 143	07/19/24 09:45	07/24/24 13:44	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:55	1
Aroclor 1221	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:55	1
Aroclor 1232	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:55	1
Aroclor 1242	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:55	1
Aroclor 1248	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 16:55	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 120-S-3-4-240717

Lab Sample ID: 860-78488-5

Date Collected: 07/17/24 14:00

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 16:55	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		35 - 140				07/19/24 09:45	07/19/24 16:55	1
DCB Decachlorobiphenyl (Surr)	126		37 - 142				07/19/24 09:45	07/19/24 16:55	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0219	U	0.0964	0.0219	mg/Kg		07/23/24 18:08	07/25/24 05:12	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		07/23/24 18:08	07/25/24 05:12	1
2,4,6-Trinitrotoluene	0.0296	U	0.0964	0.0296	mg/Kg		07/23/24 18:08	07/25/24 05:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122				07/23/24 18:08	07/25/24 05:12	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.31	J	10.0	5.00	mg/Kg		07/24/24 11:29	07/25/24 14:40	1
Nitrate as N	15.5		1.00	0.692	mg/Kg		07/24/24 11:29	07/25/24 14:40	1
Fluoride	7.09		5.00	1.00	mg/Kg		07/24/24 11:29	07/25/24 14:40	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/24/24 11:29	07/25/24 14:40	1
Nitrate Nitrite as N	15.5		1.00	0.502	mg/Kg		07/24/24 11:29	07/25/24 14:40	1
Sulfate	99.6		10.0	4.32	mg/Kg		07/24/24 11:29	07/25/24 14:40	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.199	U	0.833	0.199	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Arsenic	2.82		1.67	0.429	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Barium	278		1.67	0.571	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Beryllium	0.219	J	0.833	0.211	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Cadmium	0.223	U	0.833	0.223	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Chromium	3.03		1.67	0.225	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Copper	1.18	J	1.67	0.483	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Iron	2850		8.33	3.43	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Manganese	21.9		0.833	0.178	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Lead	2.41		0.833	0.264	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Antimony	0.888	U	1.67	0.888	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Selenium	0.394	U	0.833	0.394	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Thallium	0.225	U	0.833	0.225	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Uranium	0.380	J	0.417	0.117	mg/Kg		07/29/24 09:29	07/29/24 21:01	5
Zinc	6.46		1.67	0.488	mg/Kg		07/29/24 09:29	07/29/24 21:01	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0131	J	0.0192	0.00861	mg/Kg		07/25/24 06:51	07/25/24 19:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	62.4		58.8	29.2	ug/Kg		07/25/24 17:39	07/25/24 19:38	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 120-S-3-4-240717

Lab Sample ID: 860-78488-5

Date Collected: 07/17/24 14:00

Matrix: Solid

Date Received: 07/18/24 10:03

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.7	HF			SU			07/26/24 19:11	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	109		5.00	5.00	mg/L			07/30/24 10:18	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.657		0.171	0.183	1.00	0.150	pCi/g	07/24/24 12:19	08/15/24 14:05	1
Radium-228	0.133	U	0.250	0.250		0.299	pCi/g	07/24/24 12:19	08/15/24 14:05	1
Combined Radium 226 + 228	0.789		0.303	0.310		0.299	pCi/g	07/24/24 12:19	08/15/24 14:05	1

Client Sample ID: Cell18-Square 120-S-3-4-240717

Lab Sample ID: 860-78488-5

Date Collected: 07/17/24 14:00

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.8	U	70.4	12.8	ug/Kg	☼	07/22/24 09:57	07/23/24 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	80		30 - 164				07/22/24 09:57	07/23/24 16:12	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.7	2.69	mg/Kg	☼	07/23/24 13:01	07/25/24 06:31	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/23/24 13:01	07/25/24 06:31	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.02	J b	8.62	2.56	mg/Kg	☼	07/24/24 07:31	07/25/24 19:17	1
C28-C36	8.73	U	17.4	8.73	mg/Kg	☼	07/24/24 07:31	07/25/24 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	73		50 - 126				07/24/24 07:31	07/25/24 19:17	1
2-Fluorobiphenyl	50		40 - 133				07/24/24 07:31	07/25/24 19:17	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0872	U	0.207	0.0872	ug/Kg	☼	07/29/24 08:34	07/30/24 17:31	1
Perfluorohexanesulfonic acid (PFHxS)	0.0223	U	0.207	0.0223	ug/Kg	☼	07/29/24 08:34	07/30/24 17:31	1
Perfluorooctanesulfonic acid (PFOS)	0.0290	U	0.207	0.0290	ug/Kg	☼	07/29/24 08:34	07/30/24 17:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	81.5		40 - 130				07/29/24 08:34	07/30/24 17:31	1
13C3 PFHxS	76.0		40 - 130				07/29/24 08:34	07/30/24 17:31	1
13C8 PFOS	63.6		40 - 130				07/29/24 08:34	07/30/24 17:31	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 120-S-3-4-240717

Lab Sample ID: 860-78488-5

Date Collected: 07/17/24 14:00

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.2

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.454	J b	0.847	0.0931	ug/Kg	☆	07/23/24 12:18	07/24/24 16:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.0682	U	0.114	0.0682	mg/Kg	☆		07/25/24 00:29	1

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.44	U	49.9	5.44	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Acrylonitrile	7.94	U	20.0	7.94	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Benzene	0.382	U	0.998	0.382	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Bromodichloromethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Tribromomethane	2.21	U	4.99	2.21	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Bromomethane	0.927	U	4.99	0.927	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Methyl tert-butyl ether	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Carbon tetrachloride	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Monochlorobenzene	0.622	U	4.99	0.622	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Chloroform	0.523	U	4.99	0.523	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Chloromethane	0.936	U	4.99	0.936	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,2-Dibromoethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,2-Dichlorobenzene	1.45	U	4.99	1.45	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,3-Dichlorobenzene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,4-Dichlorobenzene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Dichlorodifluoromethane	1.91	U	4.99	1.91	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,1-Dichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,2-Dichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,1-Dichloroethene	0.572	U	4.99	0.572	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
cis-1,2-Dichloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
trans-1,2-Dichloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,2-Dichloropropane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
cis-1,3-Dichloropropene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
trans-1,3-Dichloropropene	1.66	U	4.99	1.66	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,1-Dichloropropene	0.514	U	4.99	0.514	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,4-Dioxane	24.0	U	99.8	24.0	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Ethylbenzene	0.304	U	0.998	0.304	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Methylene Chloride	8.40	U	20.0	8.40	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Styrene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,1,2,2-Tetrachloroethane	0.352	U	4.99	0.352	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Tetrachloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Toluene	1.21	U	4.99	1.21	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
m,p-Xylenes	0.000432	U	0.00200	0.000432	mg/Kg		07/19/24 10:33	07/19/24 15:00	1
1,2,4-Trichlorobenzene	1.00	U	4.99	1.00	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,1,1-Trichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,1,2-Trichloroethane	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Trichloroethene	0.998	U	4.99	0.998	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
o-Xylene	0.000315	U	0.000998	0.000315	mg/Kg		07/19/24 10:33	07/19/24 15:00	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.78	U	4.99	1.78	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Vinyl chloride	0.622	U	4.99	0.622	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
Xylenes, Total	0.432	U	2.00	0.432	ug/Kg		07/19/24 10:33	07/19/24 15:00	1
1,3-Dichloropropene, Total	1.66	U	4.99	1.66	ug/Kg		07/19/24 10:33	07/19/24 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	85		53 - 142	07/19/24 10:33	07/19/24 15:00	1
Toluene-d8 (Surr)	97		70 - 130	07/19/24 10:33	07/19/24 15:00	1
4-Bromofluorobenzene (Surr)	97		68 - 152	07/19/24 10:33	07/19/24 15:00	1
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	07/19/24 10:33	07/19/24 15:00	1

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00248	U H	0.00495	0.00248	mg/Kg		07/23/24 10:58	07/23/24 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144	07/23/24 10:58	07/23/24 18:37	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 11:11	07/22/24 16:38	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/19/24 11:11	07/22/24 16:38	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 11:11	07/22/24 16:38	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 11:11	07/22/24 16:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.666	U	mg/Kg			542-88-1	07/19/24 11:11	07/22/24 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		30 - 115	07/19/24 11:11	07/22/24 16:38	1
2-Fluorophenol	87		25 - 121	07/19/24 11:11	07/22/24 16:38	1
2,4,6-Tribromophenol	51		19 - 122	07/19/24 11:11	07/22/24 16:38	1
Nitrobenzene-d5	66		23 - 129	07/19/24 11:11	07/22/24 16:38	1
Phenol-d5 (Surr)	72		24 - 113	07/19/24 11:11	07/22/24 16:38	1
p-Terphenyl-d14 (Surr)	93		18 - 137	07/19/24 11:11	07/22/24 16:38	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.834	0.254	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Aldrin	0.187	U	0.834	0.187	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Hexachlorocyclohexane, alpha-	0.163	U	0.834	0.163	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Hexachlorocyclohexane, beta-	0.155	U	0.834	0.155	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Chlordane (technical)	12.1	U	41.7	12.1	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Hexachlorocyclohexane, delta-	0.344	U	0.834	0.344	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Dieldrin	0.170	U	0.834	0.170	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Endosulfan I	0.202	U	0.834	0.202	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Endosulfan II	0.247	U	0.834	0.247	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Endosulfan sulfate	0.276	U	0.834	0.276	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Endrin	0.291	U	0.834	0.291	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Endrin aldehyde	0.248	U	0.834	0.248	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Hexachlorocyclohexane, gamma-	0.158	U	0.834	0.158	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Heptachlor	0.215	U	0.834	0.215	ug/Kg		07/19/24 09:45	07/24/24 14:00	1
Heptachlor epoxide	0.183	U	0.834	0.183	ug/Kg		07/19/24 09:45	07/24/24 14:00	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	9.79	U	16.7	9.79	ug/Kg		07/19/24 09:45	07/24/24 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		35 - 135	07/19/24 09:45	07/24/24 14:00	1
DCB Decachlorobiphenyl (Surr)	94		25 - 143	07/19/24 09:45	07/24/24 14:00	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 17:07	1
Aroclor 1221	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 17:07	1
Aroclor 1232	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 17:07	1
Aroclor 1242	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 17:07	1
Aroclor 1248	0.00396	U	0.0167	0.00396	mg/Kg		07/19/24 09:45	07/19/24 17:07	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 17:07	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		35 - 140	07/19/24 09:45	07/19/24 17:07	1
DCB Decachlorobiphenyl (Surr)	141		37 - 142	07/19/24 09:45	07/19/24 17:07	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0219	U	0.0966	0.0219	mg/Kg		07/23/24 18:08	07/25/24 05:35	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		07/23/24 18:08	07/25/24 05:35	1
2,4,6-Trinitrotoluene	0.0297	U	0.0966	0.0297	mg/Kg		07/23/24 18:08	07/25/24 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	07/23/24 18:08	07/25/24 05:35	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.6		10.0	5.00	mg/Kg		07/24/24 11:29	07/25/24 15:01	1
Nitrate as N	5.57		1.00	0.692	mg/Kg		07/24/24 11:29	07/25/24 15:01	1
Fluoride	8.81		5.00	1.00	mg/Kg		07/24/24 11:29	07/25/24 15:01	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/24/24 11:29	07/25/24 15:01	1
Nitrate Nitrite as N	5.57		1.00	0.502	mg/Kg		07/24/24 11:29	07/25/24 15:01	1
Sulfate	96.8		10.0	4.32	mg/Kg		07/24/24 11:29	07/25/24 15:01	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.206	U	0.862	0.206	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Arsenic	4.13		1.72	0.444	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Barium	302		1.72	0.591	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Beryllium	0.218	U	0.862	0.218	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Cadmium	0.230	U	0.862	0.230	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Chromium	1.94		1.72	0.233	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Copper	1.46	J	1.72	0.500	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Iron	1570		8.62	3.55	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Manganese	16.1		0.862	0.184	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Lead	1.05		0.862	0.273	mg/Kg		07/29/24 09:29	07/29/24 21:03	5

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Method: SW846 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Selenium	0.407	U	0.862	0.407	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Thallium	0.232	U	0.862	0.232	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Uranium	0.484		0.431	0.121	mg/Kg		07/29/24 09:29	07/29/24 21:03	5
Zinc	4.14		1.72	0.504	mg/Kg		07/29/24 09:29	07/29/24 21:03	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00991	J	0.0185	0.00829	mg/Kg		07/25/24 06:51	07/25/24 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	102		58.8	29.2	ug/Kg		07/25/24 17:39	07/25/24 19:39	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.5	HF			SU			07/26/24 19:11	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	105		5.00	5.00	mg/L			07/30/24 10:18	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.981		0.206	0.228	1.00	0.155	pCi/g	07/24/24 12:19	08/15/24 14:06	1
Radium-228	0.146	U	0.270	0.271		0.314	pCi/g	07/24/24 12:19	08/15/24 14:06	1
Combined Radium 226 + 228	1.13		0.340	0.354		0.314	pCi/g	07/24/24 12:19	08/15/24 14:06	1

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.8	U	70.4	12.8	ug/Kg	☼	07/22/24 09:57	07/23/24 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	73		30 - 164				07/22/24 09:57	07/23/24 16:39	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.67	U	10.7	2.67	mg/Kg	☼	07/23/24 13:01	07/25/24 07:04	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				07/23/24 13:01	07/25/24 07:04	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.61	U	8.82	2.61	mg/Kg	☼	07/24/24 07:31	07/25/24 19:41	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C28-C36	8.93	U	17.7	8.93	mg/Kg	☼	07/24/24 07:31	07/25/24 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	75		50 - 126	07/24/24 07:31	07/25/24 19:41	1
2-Fluorobiphenyl	50		40 - 133	07/24/24 07:31	07/25/24 19:41	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0909	U	0.215	0.0909	ug/Kg	☼	07/29/24 08:34	07/30/24 17:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.0233	U	0.215	0.0233	ug/Kg	☼	07/29/24 08:34	07/30/24 17:50	1
Perfluorooctanesulfonic acid (PFOS)	0.0303	U	0.215	0.0303	ug/Kg	☼	07/29/24 08:34	07/30/24 17:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C8 PFOA	88.4		40 - 130	07/29/24 08:34	07/30/24 17:50	1
¹³ C3 PFHxS	89.1		40 - 130	07/29/24 08:34	07/30/24 17:50	1
¹³ C8 PFOS	69.1		40 - 130	07/29/24 08:34	07/30/24 17:50	1

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.235	J b	0.920	0.101	ug/Kg	☼	07/23/24 12:18	07/24/24 16:31	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (SW846 9066)	0.0630	U	0.105	0.0630	mg/Kg	☼		07/25/24 00:32	1

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DBFM (53-142)	TOL (70-130)	BFB (68-152)	DCA (56-150)
860-78488-1	Cell17-Square 6-S-3-4-240717	87	96	98	106
860-78488-2	Cell18-Square 63-S-3-4-240717	85	96	96	106
860-78488-3	Cell18-Square 142-S-3-4-240717	85	97	96	105
860-78488-4	Cell18-Square 140-S-3-4-240717	86	97	97	102
860-78488-5	Cell18-Square 120-S-3-4-240717	85	97	96	102
860-78488-6	Cell21-Square 194-S-3-4-240717	85	97	97	106
LCS 860-171139/3	Lab Control Sample	88	99	96	100
LCSD 860-171139/4	Lab Control Sample Dup	88	98	96	100
MB 860-171139/8	Method Blank	85	97	96	103
Surrogate Legend					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCA (63-144)	
860-78488-1	Cell17-Square 6-S-3-4-240717	99	
860-78488-2	Cell18-Square 63-S-3-4-240717	99	
860-78488-3	Cell18-Square 142-S-3-4-240717	100	
860-78488-4	Cell18-Square 140-S-3-4-240717	101	
860-78488-5	Cell18-Square 120-S-3-4-240717	101	
860-78488-6	Cell21-Square 194-S-3-4-240717	100	
LCS 860-177046/3	Lab Control Sample	97	
LCSD 860-177046/4	Lab Control Sample Dup	94	
MB 860-177046/7	Method Blank	95	
Surrogate Legend			
DCA = 1,2-Dichloroethane-d4 (Surr)			

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-78488-1	Cell17-Square 6-S-3-4-240717	55	66	16 X	50	52	77
860-78488-2	Cell18-Square 63-S-3-4-240717	56	55	13 X	45	48	79 *

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78488-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-78488-3	Cell18-Square 142-S-3-4-24071	64	75	15 X	58	63	75
860-78488-4	Cell18-Square 140-S-3-4-240717	75	79	98	85	76	83
860-78488-5	Cell18-Square 120-S-3-4-240717	74	80	100	86	76	85
860-78488-6	Cell21-Square 194-S-3-4-240717	77	87	51	66	72	93
860-78488-6 MS	Cell21-Square 194-S-3-4-240717	102	115	101	101	110	113
860-78488-6 MSD	Cell21-Square 194-S-3-4-240717	119 X	138 X	126 X	121	129 X	143 X
LCS 860-171106/2-A	Lab Control Sample	109	129 X	143 X	116	118 X	112
LCS 860-171167/2-A	Lab Control Sample	95	101	100	92	94	115
LCSD 860-171106/3-A	Lab Control Sample Dup	111	130 X	152 X	119	121 X	123
LCSD 860-171167/3-A	Lab Control Sample Dup	97	99	102	91	95	122
MB 860-171106/1-A	Method Blank	79	82	100	91	78	87
MB 860-171167/1-A	Method Blank	73	79	38	64	64	87

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

TBP = 2,4,6-Tribromophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TPP (30-164)					
860-78488-1	Cell17-Square 6-S-3-4-240717	81					
860-78488-1 MS	Cell17-Square 6-S-3-4-240717	73					
860-78488-1 MSD	Cell17-Square 6-S-3-4-240717	82					
860-78488-2	Cell18-Square 63-S-3-4-240717	83					
860-78488-3	Cell18-Square 142-S-3-4-240717	85					
860-78488-4	Cell18-Square 140-S-3-4-240717	83					
860-78488-5	Cell18-Square 120-S-3-4-240717	80					
860-78488-6	Cell21-Square 194-S-3-4-240717	73					
LCS 400-678577/2-A	Lab Control Sample	90					
MB 400-678577/1-A	Method Blank	85					

Surrogate Legend

TPP = Triphenylphosphate

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78488-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8015D - Gasoline Range Organics (GRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)
860-78488-1	Cell17-Square 6-S-3-4-240717	101
860-78488-2	Cell18-Square 63-S-3-4-240717	106
860-78488-3	Cell18-Square 142-S-3-4-240717	105
860-78488-4	Cell18-Square 140-S-3-4-240717	100
860-78488-5	Cell18-Square 120-S-3-4-240717	103
860-78488-6	Cell21-Square 194-S-3-4-240717	99
LCS 860-177418/4	Lab Control Sample	97
LCSD 860-177418/5	Lab Control Sample Dup	99
MB 860-177418/7	Method Blank	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (50-126)	FBP (40-133)
860-78488-1	Cell17-Square 6-S-3-4-240717	97	71
860-78488-2	Cell18-Square 63-S-3-4-240717	126	95
860-78488-3	Cell18-Square 142-S-3-4-240717	94	65
860-78488-4	Cell18-Square 140-S-3-4-240717	101	70
860-78488-5	Cell18-Square 120-S-3-4-240717	73	50
860-78488-6	Cell21-Square 194-S-3-4-240717	75	50
860-78488-6 MS	Cell21-Square 194-S-3-4-240717	86	79
860-78488-6 MSD	Cell21-Square 194-S-3-4-240717	84	77
LCS 500-778072/2-A	Lab Control Sample	83	78
MB 500-778072/1-A	Method Blank	85	69

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (35-135)	DCB1 (25-143)
860-78488-1	Cell17-Square 6-S-3-4-240717	75	79
860-78488-2	Cell18-Square 63-S-3-4-240717	82	86

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78488-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (35-135)	DCB1 (25-143)
860-78488-3	Cell18-Square 142-S-3-4-24071	94	101
860-78488-4	Cell18-Square 140-S-3-4-240717	83	90
860-78488-5	Cell18-Square 120-S-3-4-240717	81	85
860-78488-6	Cell21-Square 194-S-3-4-240717	91	94
LCS 860-171151/2-A	Lab Control Sample	93	101
LCSD 860-171151/3-A	Lab Control Sample Dup	95	103
MB 860-171151/1-A	Method Blank	102	104

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (35-140)	DCB1 (37-142)
860-78488-1	Cell17-Square 6-S-3-4-240717	79	124
860-78488-2	Cell18-Square 63-S-3-4-240717	84	137
860-78488-3	Cell18-Square 142-S-3-4-240717	85	135
860-78488-4	Cell18-Square 140-S-3-4-240717	77	125
860-78488-5	Cell18-Square 120-S-3-4-240717	80	126
860-78488-6	Cell21-Square 194-S-3-4-240717	91	141
LCS 860-171151/4-A	Lab Control Sample	93	150 X
LCSD 860-171151/5-A	Lab Control Sample Dup	95	149 X
MB 860-171151/1-A	Method Blank	96	148 X

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB1 (83-122)
860-78488-1	Cell17-Square 6-S-3-4-240717	106
860-78488-2	Cell18-Square 63-S-3-4-240717	106
860-78488-3	Cell18-Square 142-S-3-4-240717	107
860-78488-4	Cell18-Square 140-S-3-4-240717	106
860-78488-5	Cell18-Square 120-S-3-4-240717	106

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	12DNB1 (83-122)
860-78488-6	Cell21-Square 194-S-3-4-24071	106
LCS 280-661465/2-A	Lab Control Sample	105
MB 280-661465/1-A	Method Blank	107
Surrogate Legend		
12DNB = 1,2-Dinitrobenzene		

Isotope Dilution Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS
Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	C8PFOA (40-130)	C3PFHS (40-130)	C8PFOS (40-130)
860-78488-1	Cell17-Square 6-S-3-4-240717	80.4	75.9	69.6
860-78488-2	Cell18-Square 63-S-3-4-240717	74.1	80.5	70.4
860-78488-3	Cell18-Square 142-S-3-4-240717	85.9	70.0	57.5
860-78488-4	Cell18-Square 140-S-3-4-240717	82.1	75.7	72.3
860-78488-5	Cell18-Square 120-S-3-4-240717	81.5	76.0	63.6
860-78488-6	Cell21-Square 194-S-3-4-240717	88.4	89.1	69.1
LCS 280-661733/3-A	Lab Control Sample	85.6	82.5	75.3
LCSD 280-661733/4-A	Lab Control Sample Dup	80.7	77.3	88.0
LLCS 280-661733/2-A	Lab Control Sample	85.8	77.2	75.4
MB 280-661733/1-A	Method Blank	81.1	76.6	91.0
Surrogate Legend				
C8PFOA = 13C8 PFOA				
C3PFHS = 13C3 PFHxS				
C8PFOS = 13C8 PFOS				

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-171139/8

Matrix: Solid

Analysis Batch: 171139

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.45	U	50.0	5.45	ug/Kg			07/19/24 11:05	1
Acrylonitrile	7.96	U	20.0	7.96	ug/Kg			07/19/24 11:05	1
Benzene	0.383	U	1.00	0.383	ug/Kg			07/19/24 11:05	1
Bromodichloromethane	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
Tribromomethane	2.21	U	5.00	2.21	ug/Kg			07/19/24 11:05	1
Bromomethane	0.929	U	5.00	0.929	ug/Kg			07/19/24 11:05	1
Methyl tert-butyl ether	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
Carbon tetrachloride	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
Monochlorobenzene	0.623	U	5.00	0.623	ug/Kg			07/19/24 11:05	1
Chloroform	0.525	U	5.00	0.525	ug/Kg			07/19/24 11:05	1
Chloromethane	0.938	U	5.00	0.938	ug/Kg			07/19/24 11:05	1
1,2-Dibromoethane	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
1,2-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			07/19/24 11:05	1
1,3-Dichlorobenzene	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
1,4-Dichlorobenzene	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
Dichlorodifluoromethane	1.91	U	5.00	1.91	ug/Kg			07/19/24 11:05	1
1,1-Dichloroethane	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
1,2-Dichloroethane	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
1,1-Dichloroethene	0.573	U	5.00	0.573	ug/Kg			07/19/24 11:05	1
cis-1,2-Dichloroethene	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
trans-1,2-Dichloroethene	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
1,2-Dichloropropane	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
cis-1,3-Dichloropropene	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
trans-1,3-Dichloropropene	1.67	U	5.00	1.67	ug/Kg			07/19/24 11:05	1
1,1-Dichloropropene	0.515	U	5.00	0.515	ug/Kg			07/19/24 11:05	1
1,4-Dioxane	24.0	U	100	24.0	ug/Kg			07/19/24 11:05	1
Ethylbenzene	0.304	U	1.00	0.304	ug/Kg			07/19/24 11:05	1
Methylene Chloride	8.42	U	20.0	8.42	ug/Kg			07/19/24 11:05	1
Styrene	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
1,1,2,2-Tetrachloroethane	0.353	U	5.00	0.353	ug/Kg			07/19/24 11:05	1
Tetrachloroethene	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
Toluene	1.21	U	5.00	1.21	ug/Kg			07/19/24 11:05	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			07/19/24 11:05	1
1,2,4-Trichlorobenzene	1.01	U	5.00	1.01	ug/Kg			07/19/24 11:05	1
1,1,1-Trichloroethane	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
1,1,2-Trichloroethane	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
Trichloroethene	1.00	U	5.00	1.00	ug/Kg			07/19/24 11:05	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			07/19/24 11:05	1
Trichlorofluoromethane	1.78	U	5.00	1.78	ug/Kg			07/19/24 11:05	1
Vinyl chloride	0.624	U	5.00	0.624	ug/Kg			07/19/24 11:05	1
Xylenes, Total	0.433	U	2.00	0.433	ug/Kg			07/19/24 11:05	1
1,3-Dichloropropene, Total	1.67	U	5.00	1.67	ug/Kg			07/19/24 11:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	85		53 - 142		07/19/24 11:05	1
Toluene-d8 (Surr)	97		70 - 130		07/19/24 11:05	1
4-Bromofluorobenzene (Surr)	96		68 - 152		07/19/24 11:05	1
1,2-Dichloroethane-d4 (Surr)	103		56 - 150		07/19/24 11:05	1

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 860-171139/3

Matrix: Solid

Analysis Batch: 171139

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	250	211.4		ug/Kg		85	50 - 150
Acrylonitrile	500	466.2		ug/Kg		93	50 - 150
Benzene	50.0	49.86		ug/Kg		100	66 - 142
Bromodichloromethane	50.0	52.74		ug/Kg		105	78 - 130
Tribromomethane	50.0	58.78		ug/Kg		118	63 - 136
Bromomethane	50.0	45.43		ug/Kg		91	60 - 140
Methyl tert-butyl ether	50.0	44.95		ug/Kg		90	64 - 148
Carbon tetrachloride	50.0	50.36		ug/Kg		101	63 - 135
Monochlorobenzene	50.0	49.78		ug/Kg		100	83 - 130
Chloroform	50.0	48.03		ug/Kg		96	74 - 130
Chloromethane	50.0	42.53		ug/Kg		85	58 - 130
1,2-Dibromoethane	50.0	53.01		ug/Kg		106	73 - 130
1,2-Dichlorobenzene	50.0	53.18		ug/Kg		106	84 - 130
1,3-Dichlorobenzene	50.0	53.07		ug/Kg		106	84 - 130
1,4-Dichlorobenzene	50.0	53.39		ug/Kg		107	82 - 130
Dichlorodifluoromethane	50.0	43.28		ug/Kg		87	54 - 130
1,1-Dichloroethane	50.0	47.58		ug/Kg		95	73 - 130
1,2-Dichloroethane	50.0	53.64		ug/Kg		107	70 - 130
1,1-Dichloroethene	50.0	48.04		ug/Kg		96	68 - 130
cis-1,2-Dichloroethene	50.0	47.76		ug/Kg		96	72 - 131
trans-1,2-Dichloroethene	50.0	40.35		ug/Kg		81	63 - 130
1,2-Dichloropropane	50.0	52.60		ug/Kg		105	75 - 130
cis-1,3-Dichloropropene	50.0	53.00		ug/Kg		106	74 - 135
trans-1,3-Dichloropropene	50.0	53.77		ug/Kg		108	73 - 130
1,1-Dichloropropene	50.0	49.62		ug/Kg		99	72 - 130
1,4-Dioxane	1000	1140		ug/Kg		114	65 - 135
Ethylbenzene	50.0	51.59		ug/Kg		103	80 - 130
Methylene Chloride	50.0	42.20		ug/Kg		84	57 - 134
Styrene	50.0	53.15		ug/Kg		106	80 - 130
1,1,2,2-Tetrachloroethane	50.0	50.78		ug/Kg		102	75 - 133
Tetrachloroethene	50.0	57.35		ug/Kg		115	79 - 130
Toluene	50.0	48.70		ug/Kg		97	74 - 130
m,p-Xylenes	0.0500	0.05096		mg/Kg		102	78 - 130
1,2,4-Trichlorobenzene	50.0	55.56		ug/Kg		111	79 - 130
1,1,1-Trichloroethane	50.0	51.16		ug/Kg		102	71 - 130
1,1,2-Trichloroethane	50.0	52.64		ug/Kg		105	75 - 131
Trichloroethene	50.0	53.68		ug/Kg		107	78 - 130
o-Xylene	0.0500	0.05147		mg/Kg		103	79 - 130
Trichlorofluoromethane	50.0	44.92		ug/Kg		90	71 - 148
Vinyl chloride	50.0	45.84		ug/Kg		92	60 - 130
Xylenes, Total	100	102.4		ug/Kg		102	70 - 130
1,3-Dichloropropene, Total	100	106.8		ug/Kg		107	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	88		53 - 142
Toluene-d8 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	96		68 - 152
1,2-Dichloroethane-d4 (Surr)	100		56 - 150

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 860-171139/4

Matrix: Solid

Analysis Batch: 171139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein	250	181.8		ug/Kg		73	50 - 150	15	25
Acrylonitrile	500	419.0		ug/Kg		84	50 - 150	11	25
Benzene	50.0	45.81		ug/Kg		92	66 - 142	8	25
Bromodichloromethane	50.0	49.50		ug/Kg		99	78 - 130	6	25
Tribromomethane	50.0	53.54		ug/Kg		107	63 - 136	9	25
Bromomethane	50.0	47.55		ug/Kg		95	60 - 140	5	25
Methyl tert-butyl ether	50.0	41.58		ug/Kg		83	64 - 148	8	25
Carbon tetrachloride	50.0	46.07		ug/Kg		92	63 - 135	9	25
Monochlorobenzene	50.0	45.61		ug/Kg		91	83 - 130	9	25
Chloroform	50.0	43.87		ug/Kg		88	74 - 130	9	25
Chloromethane	50.0	53.72		ug/Kg		107	58 - 130	23	25
1,2-Dibromoethane	50.0	47.78		ug/Kg		96	73 - 130	10	25
1,2-Dichlorobenzene	50.0	48.46		ug/Kg		97	84 - 130	9	25
1,3-Dichlorobenzene	50.0	48.46		ug/Kg		97	84 - 130	9	25
1,4-Dichlorobenzene	50.0	47.72		ug/Kg		95	82 - 130	11	25
Dichlorodifluoromethane	50.0	49.02		ug/Kg		98	54 - 130	12	25
1,1-Dichloroethane	50.0	43.38		ug/Kg		87	73 - 130	9	25
1,2-Dichloroethane	50.0	49.01		ug/Kg		98	70 - 130	9	25
1,1-Dichloroethene	50.0	43.02		ug/Kg		86	68 - 130	11	25
cis-1,2-Dichloroethene	50.0	43.62		ug/Kg		87	72 - 131	9	25
trans-1,2-Dichloroethene	50.0	35.87		ug/Kg		72	63 - 130	12	25
1,2-Dichloropropane	50.0	49.10		ug/Kg		98	75 - 130	7	25
cis-1,3-Dichloropropene	50.0	48.62		ug/Kg		97	74 - 135	9	25
trans-1,3-Dichloropropene	50.0	48.61		ug/Kg		97	73 - 130	10	25
1,1-Dichloropropene	50.0	44.34		ug/Kg		89	72 - 130	11	25
1,4-Dioxane	1000	1132		ug/Kg		113	65 - 135	1	25
Ethylbenzene	50.0	47.26		ug/Kg		95	80 - 130	9	25
Methylene Chloride	50.0	38.46		ug/Kg		77	57 - 134	9	25
Styrene	50.0	48.73		ug/Kg		97	80 - 130	9	25
1,1,2,2-Tetrachloroethane	50.0	46.49		ug/Kg		93	75 - 133	9	25
Tetrachloroethene	50.0	52.59		ug/Kg		105	79 - 130	9	25
Toluene	50.0	45.16		ug/Kg		90	74 - 130	8	25
m,p-Xylenes	0.0500	0.04671		mg/Kg		93	78 - 130	9	25
1,2,4-Trichlorobenzene	50.0	50.44		ug/Kg		101	79 - 130	10	25
1,1,1-Trichloroethane	50.0	46.83		ug/Kg		94	71 - 130	9	25
1,1,2-Trichloroethane	50.0	48.73		ug/Kg		97	75 - 131	8	25
Trichloroethene	50.0	49.27		ug/Kg		99	78 - 130	9	25
o-Xylene	0.0500	0.04707		mg/Kg		94	79 - 130	9	25
Trichlorofluoromethane	50.0	50.62		ug/Kg		101	71 - 148	12	25
Vinyl chloride	50.0	51.65		ug/Kg		103	60 - 130	12	25
Xylenes, Total	100	93.78		ug/Kg		94	70 - 130	9	25
1,3-Dichloropropene, Total	100	97.23		ug/Kg		97	60 - 140	9	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	88		53 - 142
Toluene-d8 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	96		68 - 152
1,2-Dichloroethane-d4 (Surr)	100		56 - 150

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-177046/7

Matrix: Solid

Analysis Batch: 177046

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U	0.00500	0.00250	mg/Kg			07/23/24 14:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 144					07/23/24 14:01	1

Lab Sample ID: LCS 860-177046/3

Matrix: Solid

Analysis Batch: 177046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1,4-Dioxane (P-Dioxane)		0.0500	0.06303		mg/Kg		126	65 - 135	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	97		63 - 144						

Lab Sample ID: LCSD 860-177046/4

Matrix: Solid

Analysis Batch: 177046

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)		0.0500	0.05638		mg/Kg		113	65 - 135	11	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	94		63 - 144							

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-171106/1-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-171106/1-A
Matrix: Solid
Analysis Batch: 175237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 171106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/19/24 04:36	07/22/24 11:08	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 04:36	07/22/24 11:08	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 04:36	07/22/24 11:08	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	NR		ug/mL		4.02	542-88-1	07/19/24 04:36	07/22/24 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		30 - 115	07/19/24 04:36	07/22/24 11:08	1
2-Fluorophenol	82		25 - 121	07/19/24 04:36	07/22/24 11:08	1
2,4,6-Tribromophenol	100		19 - 122	07/19/24 04:36	07/22/24 11:08	1
Nitrobenzene-d5	91		23 - 129	07/19/24 04:36	07/22/24 11:08	1
Phenol-d5 (Surr)	78		24 - 113	07/19/24 04:36	07/22/24 11:08	1
p-Terphenyl-d14 (Surr)	87		18 - 137	07/19/24 04:36	07/22/24 11:08	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-171106/2-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1144		ug/Kg		86	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1213		ug/Kg		91	35 - 135
1-Methylnaphthalene	1330	1130		ug/Kg		85	38 - 127
bis (2-chloroisopropyl) ether	1330	1124		ug/Kg		84	25 - 124
2,4,5-Trichlorophenol	1330	1267		ug/Kg		95	40 - 135
2,4,6-Trichlorophenol	1330	1235		ug/Kg		93	39 - 139
2,4-Dinitrotoluene	1330	1242		ug/Kg		93	48 - 131
Dinitrophenols	1330	1560		ug/Kg		117	19 - 131
2,4-Dichlorophenol	1330	1155		ug/Kg		87	36 - 135
2,6-Dinitrotoluene	1330	1223		ug/Kg		92	42 - 136
Dichlorobenzidine, 3,3'-	1330	914.1		ug/Kg		69	35 - 134
4,6-Dinitro-2-methylphenol	1330	1566		ug/Kg		117	30 - 146
Acenaphthene	1330	1131		ug/Kg		85	37 - 131
Anthracene	1330	1182		ug/Kg		89	39 - 139
Acenaphthylene	1330	1167		ug/Kg		88	39 - 129
Benzo[a]anthracene	1330	1168		ug/Kg		88	44 - 135
Benzo[b]fluoranthene	1330	1139		ug/Kg		85	40 - 153
Benzo[k]fluoranthene	1330	1181		ug/Kg		89	33 - 156
Benzo[g,h,i]perylene	1330	1299		ug/Kg		97	40 - 153
Benzo[a]pyrene	1330	1201		ug/Kg		90	43 - 153
Di (2-ethylhexyl)phthalate	1330	1211		ug/Kg		91	46 - 145
Bis(2-chloroethyl)ether	1330	1162		ug/Kg		87	33 - 127
Chrysene	1330	1200		ug/Kg		90	42 - 135
Dibutylphthalate	1330	1203		ug/Kg		90	43 - 142
Dibenz(a,h)anthracene	1330	1301		ug/Kg		98	41 - 155
Diethyl phthalate	1330	1204		ug/Kg		90	45 - 131
Dimethyl phthalate	1330	1130		ug/Kg		85	43 - 132
Fluoranthene	1330	1192		ug/Kg		89	41 - 138
Fluorene	1330	1106		ug/Kg		83	41 - 131
Hexachlorobenzene	1330	1273		ug/Kg		96	36 - 142
Hexachlorobutadiene	1330	1187		ug/Kg		89	35 - 129
Hexachlorocyclopentadiene	1330	688.6		ug/Kg		52	16 - 106
Hexachloroethane	1330	1194		ug/Kg		90	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1035		ug/Kg		78	39 - 154
Isophorone	1330	1059		ug/Kg		79	36 - 128
N-Nitrosodi-n-butylamine	1330	1069		ug/Kg		80	34 - 135
N-Nitrosodiethylamine	1330	1253		ug/Kg		94	36 - 127
N-Nitrosodiphenylamine	1330	1188		ug/Kg		89	27 - 155
N-Nitrosopyrrolidine	1330	1278		ug/Kg		96	38 - 136
Pentachlorobenzene	1330	1291		ug/Kg		97	38 - 136
Pentachlorophenol	1330	1153		ug/Kg		87	14 - 148
Phenanthrene	1330	1147		ug/Kg		86	37 - 139
Pyrene	1330	1126		ug/Kg		84	42 - 138
Naphthalene	1330	1207		ug/Kg		91	35 - 128
2-Methylnaphthalene	1330	1153		ug/Kg		87	36 - 126
Nitrobenzene	1330	1156		ug/Kg		87	32 - 129
Benzidine	1330	406.3		ug/Kg		30	12 - 112
Phenol	1.33	1.252		mg/Kg		94	34 - 127

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-171106/2-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodimethylamine	1330	1056		ug/Kg		79	27 - 126
Atrazine	1330	1247		ug/Kg		94	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	1101		ug/Kg		83	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	109		30 - 115
2-Fluorophenol	129	X	25 - 121
2,4,6-Tribromophenol	143	X	19 - 122
Nitrobenzene-d5	116		23 - 129
Phenol-d5 (Surr)	118	X	24 - 113
p-Terphenyl-d14 (Surr)	112		18 - 137

Lab Sample ID: LCSD 860-171106/3-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	1203		ug/Kg		90	20 - 157	5	30
1,2,4,5-Tetrachlorobenzene	1330	1247		ug/Kg		93	35 - 135	3	30
1-Methylnaphthalene	1330	1142		ug/Kg		86	38 - 127	1	30
bis (2-chloroisopropyl) ether	1330	1136		ug/Kg		85	25 - 124	1	30
2,4,5-Trichlorophenol	1330	1306		ug/Kg		98	40 - 135	3	30
2,4,6-Trichlorophenol	1330	1296		ug/Kg		97	39 - 139	5	30
2,4-Dinitrotoluene	1330	1290		ug/Kg		97	48 - 131	4	30
Dinitrophenols	1330	1638		ug/Kg		123	19 - 131	5	40
2,4-Dichlorophenol	1330	1189		ug/Kg		89	36 - 135	3	30
2,6-Dinitrotoluene	1330	1256		ug/Kg		94	42 - 136	3	30
Dichlorobenzidine, 3,3'-	1330	937.1		ug/Kg		70	35 - 134	2	40
4,6-Dinitro-2-methylphenol	1330	1646		ug/Kg		123	30 - 146	5	40
Acenaphthene	1330	1182		ug/Kg		89	37 - 131	4	30
Anthracene	1330	1234		ug/Kg		93	39 - 139	4	30
Acenaphthylene	1330	1188		ug/Kg		89	39 - 129	2	30
Benzo[a]anthracene	1330	1223		ug/Kg		92	44 - 135	5	30
Benzo[b]fluoranthene	1330	1234		ug/Kg		93	40 - 153	8	30
Benzo[k]fluoranthene	1330	1224		ug/Kg		92	33 - 156	4	30
Benzo[g,h,i]perylene	1330	1371		ug/Kg		103	40 - 153	5	30
Benzo[a]pyrene	1330	1256		ug/Kg		94	43 - 153	4	30
Di (2-ethylhexyl)phthalate	1330	1303		ug/Kg		98	46 - 145	7	30
Bis(2-chloroethyl)ether	1330	1151		ug/Kg		86	33 - 127	1	30
Chrysene	1330	1253		ug/Kg		94	42 - 135	4	30
Dibutylphthalate	1330	1285		ug/Kg		96	43 - 142	7	30
Dibenz(a,h)anthracene	1330	1385		ug/Kg		104	41 - 155	6	30
Diethyl phthalate	1330	1243		ug/Kg		93	45 - 131	3	30
Dimethyl phthalate	1330	1172		ug/Kg		88	43 - 132	4	30
Fluoranthene	1330	1231		ug/Kg		92	41 - 138	3	30
Fluorene	1330	1152		ug/Kg		86	41 - 131	4	30
Hexachlorobenzene	1330	1331		ug/Kg		100	36 - 142	4	30

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-171106/3-A

Matrix: Solid

Analysis Batch: 175237

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene	1330	1204		ug/Kg		90	35 - 129	1	30
Hexachlorocyclopentadiene	1330	791.2		ug/Kg		59	16 - 106	14	30
Hexachloroethane	1330	1247		ug/Kg		94	36 - 121	4	30
Indeno[1,2,3-cd]pyrene	1330	1121		ug/Kg		84	39 - 154	8	30
Isophorone	1330	1065		ug/Kg		80	36 - 128	1	30
N-Nitrosodi-n-butylamine	1330	1056		ug/Kg		79	34 - 135	1	30
N-Nitrosodiethylamine	1330	1275		ug/Kg		96	36 - 127	2	30
N-Nitrosodiphenylamine	1330	1230		ug/Kg		92	27 - 155	3	30
N-Nitrosopyrrolidine	1330	1316		ug/Kg		99	38 - 136	3	30
Pentachlorobenzene	1330	1326		ug/Kg		99	38 - 136	3	30
Pentachlorophenol	1330	1205		ug/Kg		90	14 - 148	4	40
Phenanthrene	1330	1185		ug/Kg		89	37 - 139	3	30
Pyrene	1330	1232		ug/Kg		92	42 - 138	9	30
Naphthalene	1330	1220		ug/Kg		92	35 - 128	1	30
2-Methylnaphthalene	1330	1149		ug/Kg		86	36 - 126	0	30
Nitrobenzene	1330	1164		ug/Kg		87	32 - 129	1	30
Benzidine	1330	450.5		ug/Kg		34	12 - 112	10	40
Phenol	1.33	1.275		mg/Kg		96	34 - 127	2	40
N-Nitrosodimethylamine	1330	1029		ug/Kg		77	27 - 126	3	30
Atrazine	1330	1306		ug/Kg		98	18 - 134	5	40
Thiophene, tetrahydro-, 1,1-dioxide	1330	1105		ug/Kg		83	30 - 140	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	111		30 - 115
2-Fluorophenol	130	X	25 - 121
2,4,6-Tribromophenol	152	X	19 - 122
Nitrobenzene-d5	119		23 - 129
Phenol-d5 (Surr)	121	X	24 - 113
p-Terphenyl-d14 (Surr)	123		18 - 137

Lab Sample ID: MB 860-171167/1-A

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/19/24 11:11	07/22/24 14:59	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-171167/1-A

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/19/24 11:11	07/22/24 14:59	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/19/24 11:11	07/22/24 14:59	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/19/24 11:11	07/22/24 14:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		30 - 115	07/19/24 11:11	07/22/24 14:59	1
2-Fluorophenol	79		25 - 121	07/19/24 11:11	07/22/24 14:59	1
2,4,6-Tribromophenol	38		19 - 122	07/19/24 11:11	07/22/24 14:59	1
Nitrobenzene-d5	64		23 - 129	07/19/24 11:11	07/22/24 14:59	1
Phenol-d5 (Surr)	64		24 - 113	07/19/24 11:11	07/22/24 14:59	1
p-Terphenyl-d14 (Surr)	87		18 - 137	07/19/24 11:11	07/22/24 14:59	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-171167/2-A

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1125		ug/Kg		84	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	967.7		ug/Kg		73	35 - 135
1-Methylnaphthalene	1330	979.0		ug/Kg		73	38 - 127
bis (2-chloroisopropyl) ether	1330	880.9		ug/Kg		66	25 - 124
2,4,5-Trichlorophenol	1330	1023		ug/Kg		77	40 - 135
2,4,6-Trichlorophenol	1330	971.9		ug/Kg		73	39 - 139
2,4-Dinitrotoluene	1330	1077		ug/Kg		81	48 - 131
Dinitrophenols	1330	1078		ug/Kg		81	19 - 131
2,4-Dichlorophenol	1330	1077		ug/Kg		81	36 - 135
2,6-Dinitrotoluene	1330	1117		ug/Kg		84	42 - 136
Dichlorobenzidine, 3,3'-	1330	733.6		ug/Kg		55	35 - 134
4,6-Dinitro-2-methylphenol	1330	1247		ug/Kg		93	30 - 146
Acenaphthene	1330	982.4		ug/Kg		74	37 - 131
Anthracene	1330	1130		ug/Kg		85	39 - 139
Acenaphthylene	1330	1043		ug/Kg		78	39 - 129
Benzo[a]anthracene	1330	1176		ug/Kg		88	44 - 135
Benzo[b]fluoranthene	1330	1057		ug/Kg		79	40 - 153
Benzo[k]fluoranthene	1330	1136		ug/Kg		85	33 - 156
Benzo[g,h,i]perylene	1330	1127		ug/Kg		85	40 - 153
Benzo[a]pyrene	1330	1030		ug/Kg		77	43 - 153
Di (2-ethylhexyl)phthalate	1330	1180		ug/Kg		89	46 - 145
Bis(2-chloroethyl)ether	1330	890.9		ug/Kg		67	33 - 127
Chrysene	1330	1139		ug/Kg		85	42 - 135
Dibutylphthalate	1330	1081		ug/Kg		81	43 - 142
Dibenz(a,h)anthracene	1330	1082		ug/Kg		81	41 - 155
Diethyl phthalate	1330	1159		ug/Kg		87	45 - 131
Dimethyl phthalate	1330	1135		ug/Kg		85	43 - 132
Fluoranthene	1330	1170		ug/Kg		88	41 - 138
Fluorene	1330	1122		ug/Kg		84	41 - 131
Hexachlorobenzene	1330	1069		ug/Kg		80	36 - 142
Hexachlorobutadiene	1330	974.4		ug/Kg		73	35 - 129
Hexachlorocyclopentadiene	1330	590.3		ug/Kg		44	16 - 106
Hexachloroethane	1330	1033		ug/Kg		77	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1115		ug/Kg		84	39 - 154
Isophorone	1330	978.7		ug/Kg		73	36 - 128
N-Nitrosodi-n-butylamine	1330	1058		ug/Kg		79	34 - 135
N-Nitrosodiethylamine	1330	1005		ug/Kg		75	36 - 127
N-Nitrosodiphenylamine	1330	1164		ug/Kg		87	27 - 155
N-Nitrosopyrrolidine	1330	995.2		ug/Kg		75	38 - 136
Pentachlorobenzene	1330	1034		ug/Kg		78	38 - 136
Pentachlorophenol	1330	954.9		ug/Kg		72	14 - 148
Phenanthrene	1330	1089		ug/Kg		82	37 - 139
Pyrene	1330	1124		ug/Kg		84	42 - 138
Naphthalene	1330	949.2		ug/Kg		71	35 - 128
2-Methylnaphthalene	1330	990.2		ug/Kg		74	36 - 126
Nitrobenzene	1330	957.2		ug/Kg		72	32 - 129
Benzidine	1330	552.3		ug/Kg		41	12 - 112
Phenol	1.33	0.9644		mg/Kg		72	34 - 127

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-171167/2-A

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodimethylamine	1330	1000		ug/Kg		75	27 - 126
Atrazine	1330	1434		ug/Kg		108	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	1144		ug/Kg		86	30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	95		30 - 115
2-Fluorophenol	101		25 - 121
2,4,6-Tribromophenol	100		19 - 122
Nitrobenzene-d5	92		23 - 129
Phenol-d5 (Surr)	94		24 - 113
p-Terphenyl-d14 (Surr)	115		18 - 137

Lab Sample ID: LCSD 860-171167/3-A

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171167

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	1160		ug/Kg		87	20 - 157	3	30
1,2,4,5-Tetrachlorobenzene	1330	983.5		ug/Kg		74	35 - 135	2	30
1-Methylnaphthalene	1330	1012		ug/Kg		76	38 - 127	3	30
bis (2-chloroisopropyl) ether	1330	851.6		ug/Kg		64	25 - 124	3	30
2,4,5-Trichlorophenol	1330	1128		ug/Kg		85	40 - 135	10	30
2,4,6-Trichlorophenol	1330	1037		ug/Kg		78	39 - 139	6	30
2,4-Dinitrotoluene	1330	1115		ug/Kg		84	48 - 131	3	30
Dinitrophenols	1330	1200		ug/Kg		90	19 - 131	11	40
2,4-Dichlorophenol	1330	1150		ug/Kg		86	36 - 135	7	30
2,6-Dinitrotoluene	1330	1199		ug/Kg		90	42 - 136	7	30
Dichlorobenzidine, 3,3'-	1330	810.2		ug/Kg		61	35 - 134	10	40
4,6-Dinitro-2-methylphenol	1330	1262		ug/Kg		95	30 - 146	1	40
Acenaphthene	1330	1065		ug/Kg		80	37 - 131	8	30
Anthracene	1330	1181		ug/Kg		89	39 - 139	4	30
Acenaphthylene	1330	1102		ug/Kg		83	39 - 129	5	30
Benzo[a]anthracene	1330	1169		ug/Kg		88	44 - 135	1	30
Benzo[b]fluoranthene	1330	1068		ug/Kg		80	40 - 153	1	30
Benzo[k]fluoranthene	1330	1184		ug/Kg		89	33 - 156	4	30
Benzo[g,h,i]perylene	1330	1161		ug/Kg		87	40 - 153	3	30
Benzo[a]pyrene	1330	1051		ug/Kg		79	43 - 153	2	30
Di (2-ethylhexyl)phthalate	1330	1194		ug/Kg		90	46 - 145	1	30
Bis(2-chloroethyl)ether	1330	884.9		ug/Kg		66	33 - 127	1	30
Chrysene	1330	1222		ug/Kg		92	42 - 135	7	30
Dibutylphthalate	1330	1081		ug/Kg		81	43 - 142	0	30
Dibenz(a,h)anthracene	1330	1126		ug/Kg		84	41 - 155	4	30
Diethyl phthalate	1330	1224		ug/Kg		92	45 - 131	6	30
Dimethyl phthalate	1330	1174		ug/Kg		88	43 - 132	3	30
Fluoranthene	1330	1209		ug/Kg		91	41 - 138	3	30
Fluorene	1330	1184		ug/Kg		89	41 - 131	5	30
Hexachlorobenzene	1330	1065		ug/Kg		80	36 - 142	0	30

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-171167/3-A

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171167

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene	1330	943.9		ug/Kg		71	35 - 129	3	30
Hexachlorocyclopentadiene	1330	538.2		ug/Kg		40	16 - 106	9	30
Hexachloroethane	1330	985.6		ug/Kg		74	36 - 121	5	30
Indeno[1,2,3-cd]pyrene	1330	1137		ug/Kg		85	39 - 154	2	30
Isophorone	1330	1009		ug/Kg		76	36 - 128	3	30
N-Nitrosodi-n-butylamine	1330	1137		ug/Kg		85	34 - 135	7	30
N-Nitrosodiethylamine	1330	985.2		ug/Kg		74	36 - 127	2	30
N-Nitrosodiphenylamine	1330	1197		ug/Kg		90	27 - 155	3	30
N-Nitrosopyrrolidine	1330	1035		ug/Kg		78	38 - 136	4	30
Pentachlorobenzene	1330	1084		ug/Kg		81	38 - 136	5	30
Pentachlorophenol	1330	993.1		ug/Kg		74	14 - 148	4	40
Phenanthrene	1330	1143		ug/Kg		86	37 - 139	5	30
Pyrene	1330	1169		ug/Kg		88	42 - 138	4	30
Naphthalene	1330	937.9		ug/Kg		70	35 - 128	1	30
2-Methylnaphthalene	1330	1016		ug/Kg		76	36 - 126	3	30
Nitrobenzene	1330	952.6		ug/Kg		71	32 - 129	0	30
Benzidine	1330	609.9		ug/Kg		46	12 - 112	10	40
Phenol	1.33	0.9777		mg/Kg		73	34 - 127	1	40
N-Nitrosodimethylamine	1330	1024		ug/Kg		77	27 - 126	2	30
Atrazine	1330	1456		ug/Kg		109	18 - 134	2	40
Thiophene, tetrahydro-, 1,1-dioxide	1330	1235		ug/Kg		93	30 - 140	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	97		30 - 115
2-Fluorophenol	99		25 - 121
2,4,6-Tribromophenol	102		19 - 122
Nitrobenzene-d5	91		23 - 129
Phenol-d5 (Surr)	95		24 - 113
p-Terphenyl-d14 (Surr)	122		18 - 137

Lab Sample ID: 860-78488-6 MS

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Cell21-Square 194-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 171167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	1340	1150		ug/Kg		86	20 - 157
1,2,4,5-Tetrachlorobenzene	16.5	U	1340	1038		ug/Kg		78	35 - 135
1-Methylnaphthalene	26.7	U	1340	1088		ug/Kg		81	38 - 127
bis (2-chloroisopropyl) ether	17.8	U	1340	945.0		ug/Kg		71	25 - 124
2,4,5-Trichlorophenol	19.1	U	1340	1067		ug/Kg		80	40 - 135
2,4,6-Trichlorophenol	15.7	U	1340	1037		ug/Kg		78	39 - 139
2,4-Dinitrotoluene	12.7	U	1340	1064		ug/Kg		80	48 - 131
Dinitrophenols	24.2	U	1340	1094		ug/Kg		82	19 - 131
2,4-Dichlorophenol	17.4	U	1340	1197		ug/Kg		90	36 - 135
2,6-Dinitrotoluene	23.3	U	1340	1145		ug/Kg		86	42 - 136
Dichlorobenzidine, 3,3'-	15.4	U	1340	778.0		ug/Kg		58	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1340	1201		ug/Kg		90	30 - 146

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-78488-6 MS

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Cell21-Square 194-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 171167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	15.5	U	1340	1050		ug/Kg		79	37 - 131
Anthracene	13.8	U	1340	1136		ug/Kg		85	39 - 139
Acenaphthylene	14.8	U	1340	1097		ug/Kg		82	39 - 129
Benzo[a]anthracene	14.1	U	1340	1159		ug/Kg		87	44 - 135
Benzo[b]fluoranthene	12.6	U	1340	1026		ug/Kg		77	40 - 153
Benzo[k]fluoranthene	19.4	U	1340	1099		ug/Kg		82	33 - 156
Benzo[g,h,i]perylene	15.3	U	1340	1114		ug/Kg		83	40 - 153
Benzo[a]pyrene	17.2	U	1340	1018		ug/Kg		76	43 - 153
Di (2-ethylhexyl)phthalate	167	U	1340	1169		ug/Kg		88	46 - 145
Bis(2-chloroethyl)ether	15.2	U	1340	956.7		ug/Kg		72	33 - 127
Chrysene	16.5	U	1340	1123		ug/Kg		84	42 - 135
Dibutylphthalate	16.0	U	1340	1077		ug/Kg		81	43 - 142
Dibenz(a,h)anthracene	12.7	U	1340	1080		ug/Kg		81	41 - 155
Diethyl phthalate	15.3	U	1340	1152		ug/Kg		86	45 - 131
Dimethyl phthalate	15.9	U	1340	1138		ug/Kg		85	43 - 132
Fluoranthene	14.7	U	1340	1163		ug/Kg		87	41 - 138
Fluorene	13.8	U	1340	1136		ug/Kg		85	41 - 131
Hexachlorobenzene	16.2	U	1340	1035		ug/Kg		77	36 - 142
Hexachlorobutadiene	13.8	U	1340	1038		ug/Kg		78	35 - 129
Hexachlorocyclopentadiene	15.2	U	1340	614.2		ug/Kg		46	16 - 106
Hexachloroethane	17.3	U	1340	1047		ug/Kg		78	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1340	1101		ug/Kg		82	39 - 154
Isophorone	14.5	U	1340	1073		ug/Kg		80	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1340	1142		ug/Kg		86	34 - 135
N-Nitrosodiethylamine	21.9	U	1340	1093		ug/Kg		82	36 - 127
N-Nitrosodiphenylamine	18.6	U	1340	1169		ug/Kg		88	27 - 155
N-Nitrosopyrrolidine	14.1	U	1340	1105		ug/Kg		83	38 - 136
Pentachlorobenzene	15.9	U	1340	1073		ug/Kg		80	38 - 136
Pentachlorophenol	12.1	U	1340	963.0		ug/Kg		72	14 - 148
Phenanthrene	16.6	U	1340	1085		ug/Kg		81	37 - 139
Pyrene	14.6	U	1340	1105		ug/Kg		83	42 - 138
Naphthalene	15.6	U	1340	1022		ug/Kg		77	35 - 128
2-Methylnaphthalene	45.2	U	1340	1088		ug/Kg		81	36 - 126
Nitrobenzene	18.5	U	1340	1047		ug/Kg		78	32 - 129
Benzidine	12.1	U	1340	627.8		ug/Kg		47	12 - 112
Phenol	0.0150	U	1.34	1.087		mg/Kg		81	34 - 127
N-Nitrosodimethylamine	16.7	U	1340	1119		ug/Kg		84	27 - 126
Atrazine	16.5	U	1340	1428		ug/Kg		107	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1340	1150		ug/Kg		86	

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	102		30 - 115
2-Fluorophenol	115		25 - 121
2,4,6-Tribromophenol	101		19 - 122
Nitrobenzene-d5	101		23 - 129
Phenol-d5 (Surr)	110		24 - 113
p-Terphenyl-d14 (Surr)	113		18 - 137

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-78488-6 MSD

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Cell21-Square 194-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 171167

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	1330	1416		ug/Kg		106	20 - 157	21	30
1,2,4,5-Tetrachlorobenzene	16.5	U	1330	1251		ug/Kg		94	35 - 135	19	30
1-Methylnaphthalene	26.7	U	1330	1328		ug/Kg		99	38 - 127	20	30
bis (2-chloroisopropyl) ether	17.8	U	1330	1131		ug/Kg		85	25 - 124	18	30
2,4,5-Trichlorophenol	19.1	U	1330	1305		ug/Kg		98	40 - 135	20	30
2,4,6-Trichlorophenol	15.7	U	1330	1272		ug/Kg		95	39 - 139	20	30
2,4-Dinitrotoluene	12.7	U	1330	1368		ug/Kg		103	48 - 131	25	30
Dinitrophenols	24.2	U	1330	1424		ug/Kg		107	19 - 131	26	40
2,4-Dichlorophenol	17.4	U	1330	1503		ug/Kg		113	36 - 135	23	30
2,6-Dinitrotoluene	23.3	U	1330	1478		ug/Kg		111	42 - 136	25	30
Dichlorobenzidine, 3,3'-	15.4	U	1330	1023		ug/Kg		77	35 - 134	27	40
4,6-Dinitro-2-methylphenol	12.7	U	1330	1548		ug/Kg		116	30 - 146	25	40
Acenaphthene	15.5	U	1330	1308		ug/Kg		98	37 - 131	22	30
Anthracene	13.8	U	1330	1462		ug/Kg		110	39 - 139	25	30
Acenaphthylene	14.8	U	1330	1338		ug/Kg		100	39 - 129	20	30
Benzo[a]anthracene	14.1	U	1330	1479		ug/Kg		111	44 - 135	24	30
Benzo[b]fluoranthene	12.6	U	1330	1311		ug/Kg		98	40 - 153	24	30
Benzo[k]fluoranthene	19.4	U	1330	1438		ug/Kg		108	33 - 156	27	30
Benzo[g,h,i]perylene	15.3	U	1330	1405		ug/Kg		105	40 - 153	23	30
Benzo[a]pyrene	17.2	U	1330	1305		ug/Kg		98	43 - 153	25	30
Di (2-ethylhexyl)phthalate	167	U	1330	1470		ug/Kg		110	46 - 145	23	30
Bis(2-chloroethyl)ether	15.2	U	1330	1154		ug/Kg		86	33 - 127	19	30
Chrysene	16.5	U	1330	1440		ug/Kg		108	42 - 135	25	30
Dibutylphthalate	16.0	U	1330	1398		ug/Kg		105	43 - 142	26	30
Dibenz(a,h)anthracene	12.7	U	1330	1369		ug/Kg		103	41 - 155	24	30
Diethyl phthalate	15.3	U	1330	1477		ug/Kg		111	45 - 131	25	30
Dimethyl phthalate	15.9	U	1330	1460		ug/Kg		109	43 - 132	25	30
Fluoranthene	14.7	U	1330	1537		ug/Kg		115	41 - 138	28	30
Fluorene	13.8	U	1330	1406		ug/Kg		105	41 - 131	21	30
Hexachlorobenzene	16.2	U	1330	1328		ug/Kg		100	36 - 142	25	30
Hexachlorobutadiene	13.8	U	1330	1251		ug/Kg		94	35 - 129	19	30
Hexachlorocyclopentadiene	15.2	U	1330	704.7		ug/Kg		53	16 - 106	14	30
Hexachloroethane	17.3	U	1330	1275		ug/Kg		96	36 - 121	20	30
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1384		ug/Kg		104	39 - 154	23	30
Isophorone	14.5	U	1330	1340		ug/Kg		100	36 - 128	22	30
N-Nitrosodi-n-butylamine	25.2	U	1330	1496		ug/Kg		112	34 - 135	27	30
N-Nitrosodiethylamine	21.9	U	1330	1356		ug/Kg		102	36 - 127	21	30
N-Nitrosodiphenylamine	18.6	U	1330	1495		ug/Kg		112	27 - 155	24	30
N-Nitrosopyrrolidine	14.1	U	1330	1410		ug/Kg		106	38 - 136	24	30
Pentachlorobenzene	15.9	U	1330	1331		ug/Kg		100	38 - 136	21	30
Pentachlorophenol	12.1	U	1330	1275		ug/Kg		96	14 - 148	28	40
Phenanthrene	16.6	U	1330	1405		ug/Kg		105	37 - 139	26	30
Pyrene	14.6	U	1330	1425		ug/Kg		107	42 - 138	25	30
Naphthalene	15.6	U	1330	1226		ug/Kg		92	35 - 128	18	30
2-Methylnaphthalene	45.2	U	1330	1354		ug/Kg		101	36 - 126	22	30
Nitrobenzene	18.5	U	1330	1252		ug/Kg		94	32 - 129	18	30
Benzidine	12.1	U	1330	770.1		ug/Kg		58	12 - 112	20	40
Phenol	0.0150	U	1.33	1.328		mg/Kg		100	34 - 127	20	40

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-78488-6 MSD

Matrix: Solid

Analysis Batch: 175281

Client Sample ID: Cell21-Square 194-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 171167

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodimethylamine	16.7	U	1330	1382		ug/Kg		104	27 - 126	21	30
Atrazine	16.5	U	1330	1809	N1	ug/Kg		136	18 - 134	24	40
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1330	1513		ug/Kg		113		27	
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2-Fluorobiphenyl	119	X	30 - 115								
2-Fluorophenol	138	X	25 - 121								
2,4,6-Tribromophenol	126	X	19 - 122								
Nitrobenzene-d5	121		23 - 129								
Phenol-d5 (Surr)	129	X	24 - 113								
p-Terphenyl-d14 (Surr)	143	X	18 - 137								

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-678577/1-A

Matrix: Solid

Analysis Batch: 678736

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 678577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		07/22/24 09:57	07/23/24 12:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	85		30 - 164				07/22/24 09:57	07/23/24 12:39	1

Lab Sample ID: LCS 400-678577/2-A

Matrix: Solid

Analysis Batch: 678736

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 678577

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Prometon			333	291.8		ug/Kg		88	40 - 140		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
Triphenylphosphate	90		30 - 164								

Lab Sample ID: 860-78488-1 MS

Matrix: Solid

Analysis Batch: 678736

Client Sample ID: Cell17-Square 6-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 678577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Prometon	12.2	U	338	220.6		ug/Kg	☼	65	40 - 140		
Surrogate	MS %Recovery	MS Qualifier	Limits								
Triphenylphosphate	73		30 - 164								

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-78488-1 MSD

Matrix: Solid

Analysis Batch: 678736

Client Sample ID: Cell17-Square 6-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 678577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Prometon	12.2	U	335	264.0		ug/Kg	☼	79	40 - 140	18	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Triphenylphosphate	82		30 - 164								

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-177418/7

Matrix: Solid

Analysis Batch: 177418

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			07/25/24 01:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130					07/25/24 01:32	1

Lab Sample ID: LCS 860-177418/4

Matrix: Solid

Analysis Batch: 177418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C4-C12			1.00	0.7507		mg/Kg		75	70 - 130		
Surrogate			LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)			97		70 - 130						

Lab Sample ID: LCSD 860-177418/5

Matrix: Solid

Analysis Batch: 177418

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
C4-C12			1.00	0.7372		mg/Kg	-	74	70 - 130	2	30
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
4-Bromofluorobenzene (Surr)	99		70 - 130								

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-778072/1-A

Matrix: Solid

Analysis Batch: 778359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 778072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5.060	J	8.30	2.46	mg/Kg		07/24/24 07:31	07/25/24 13:17	1
C28-C36	11.04	J	16.7	8.40	mg/Kg		07/24/24 07:31	07/25/24 13:17	1

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

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

Lab Sample ID: MB 500-778072/1-A

Matrix: Solid

Analysis Batch: 778359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 778072

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
o-Terphenyl (Surr)	85		50 - 126	07/24/24 07:31	07/25/24 13:17	1				
2-Fluorobiphenyl	69		40 - 133	07/24/24 07:31	07/25/24 13:17	1				

Lab Sample ID: LCS 500-778072/2-A

Matrix: Solid

Analysis Batch: 778359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 778072

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28			66.7	69.79		mg/Kg		105	60 - 125	
Surrogate	%Recovery	Qualifier	Limits							
o-Terphenyl (Surr)	83		50 - 126							
2-Fluorobiphenyl	78		40 - 133							

Lab Sample ID: 860-78488-6 MS

Matrix: Solid

Analysis Batch: 778359

Client Sample ID: Cell21-Square 194-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 778072

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C10-C28	2.61	U	70.8	53.53		mg/Kg	☼	76	60 - 125	
Surrogate	%Recovery	Qualifier	Limits							
o-Terphenyl (Surr)	86		50 - 126							
2-Fluorobiphenyl	79		40 - 133							

Lab Sample ID: 860-78488-6 MSD

Matrix: Solid

Analysis Batch: 778359

Client Sample ID: Cell21-Square 194-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 778072

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD Limit
C10-C28	2.61	U	71.3	52.05		mg/Kg	☼	73	60 - 125	3 30
Surrogate	%Recovery	Qualifier	Limits							
o-Terphenyl (Surr)	84		50 - 126							
2-Fluorobiphenyl	77		40 - 133							

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-171151/1-A

Matrix: Solid

Analysis Batch: 176812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171151

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DDT	0.254	U	0.833	0.254	ug/Kg		07/19/24 09:45	07/23/24 11:32	1	
Aldrin	0.187	U	0.833	0.187	ug/Kg		07/19/24 09:45	07/23/24 11:32	1	
Hexachlorocyclohexane, alpha-	0.163	U	0.833	0.163	ug/Kg		07/19/24 09:45	07/23/24 11:32	1	
Hexachlorocyclohexane, beta-	0.155	U	0.833	0.155	ug/Kg		07/19/24 09:45	07/23/24 11:32	1	
Chlordane (technical)	12.1	U	41.7	12.1	ug/Kg		07/19/24 09:45	07/23/24 11:32	1	

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-171151/1-A

Matrix: Solid

Analysis Batch: 176812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclohexane, delta-	0.343	U	0.833	0.343	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endosulfan II	0.247	U	0.833	0.247	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endrin	0.291	U	0.833	0.291	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Hexachlorocyclohexane, gamma-	0.158	U	0.833	0.158	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Heptachlor	0.215	U	0.833	0.215	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Heptachlor epoxide	0.183	U	0.833	0.183	ug/Kg		07/19/24 09:45	07/23/24 11:32	1
Toxaphene	9.78	U	16.7	9.78	ug/Kg		07/19/24 09:45	07/23/24 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		35 - 135	07/19/24 09:45	07/23/24 11:32	1
DCB Decachlorobiphenyl (Surr)	104		25 - 143	07/19/24 09:45	07/23/24 11:32	1

Lab Sample ID: LCS 860-171151/2-A

Matrix: Solid

Analysis Batch: 176812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DDT	16.7	13.54		ug/Kg		81	13 - 192
Aldrin	16.7	14.95		ug/Kg		90	30 - 152
Hexachlorocyclohexane, alpha-	16.7	15.30		ug/Kg		92	29 - 160
Hexachlorocyclohexane, beta-	16.7	16.76		ug/Kg		101	30 - 155
Hexachlorocyclohexane, delta-	16.7	9.928		ug/Kg		60	20 - 161
Dieldrin	16.7	15.66		ug/Kg		94	33 - 153
Endosulfan I	16.7	16.31		ug/Kg		98	30 - 151
Endosulfan II	16.7	16.30		ug/Kg		98	27 - 153
Endosulfan sulfate	16.7	14.12		ug/Kg		85	15 - 170
Endrin	16.7	14.82		ug/Kg		89	25 - 162
Endrin aldehyde	16.7	15.39		ug/Kg		92	49 - 117
Hexachlorocyclohexane, gamma-	16.7	16.26		ug/Kg		98	30 - 158
Heptachlor	16.7	13.60		ug/Kg		82	29 - 163
Heptachlor epoxide	16.7	15.83		ug/Kg		95	30 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	93		35 - 135
DCB Decachlorobiphenyl (Surr)	101		25 - 143

Lab Sample ID: LCSD 860-171151/3-A

Matrix: Solid

Analysis Batch: 176812

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DDT	16.7	13.08		ug/Kg		78	13 - 192	3	25
Aldrin	16.7	15.15		ug/Kg		91	30 - 152	1	25

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-171151/3-A

Matrix: Solid

Analysis Batch: 176812

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorocyclohexane, alpha-	16.7	15.50		ug/Kg		93	29 - 160	1	25
Hexachlorocyclohexane, beta-	16.7	16.21		ug/Kg		97	30 - 155	3	25
Hexachlorocyclohexane, delta-	16.7	9.697		ug/Kg		58	20 - 161	2	25
Dieldrin	16.7	15.37		ug/Kg		92	33 - 153	2	25
Endosulfan I	16.7	16.65		ug/Kg		100	30 - 151	2	25
Endosulfan II	16.7	16.26		ug/Kg		98	27 - 153	0	25
Endosulfan sulfate	16.7	14.45		ug/Kg		87	15 - 170	2	25
Endrin	16.7	14.58		ug/Kg		87	25 - 162	2	25
Endrin aldehyde	16.7	15.62		ug/Kg		94	49 - 117	2	25
Hexachlorocyclohexane, gamma-	16.7	16.11		ug/Kg		97	30 - 158	1	25
Heptachlor	16.7	13.53		ug/Kg		81	29 - 163	1	25
Heptachlor epoxide	16.7	16.11		ug/Kg		97	30 - 150	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Tetrachloro-m-xylene	95		35 - 135
DCB Decachlorobiphenyl (Surr)	103		25 - 143

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-171151/1-A

Matrix: Solid

Analysis Batch: 171128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 14:38	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		07/19/24 09:45	07/19/24 14:38	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		35 - 140	07/19/24 09:45	07/19/24 14:38	1
DCB Decachlorobiphenyl (Surr)	148	X	37 - 142	07/19/24 09:45	07/19/24 14:38	1

Lab Sample ID: LCS 860-171151/4-A

Matrix: Solid

Analysis Batch: 171128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.167	0.1616		mg/Kg		97	27 - 121
Aroclor 1260	0.167	0.2094		mg/Kg		126	27 - 139

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
Tetrachloro-m-xylene	93		35 - 140
DCB Decachlorobiphenyl (Surr)	150	X	37 - 142

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 860-171151/5-A

Matrix: Solid

Analysis Batch: 171128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 171151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.167	0.1627		mg/Kg		98	27 - 121	1	20
Aroclor 1260	0.167	0.2089		mg/Kg		125	27 - 139	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	95		35 - 140
DCB Decachlorobiphenyl (Surr)	149	X	37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-661465/1-A

Matrix: Solid

Analysis Batch: 661573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 661465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.100	0.0227	mg/Kg		07/23/24 18:08	07/25/24 00:14	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		07/23/24 18:08	07/25/24 00:14	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		07/23/24 18:08	07/25/24 00:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	107		83 - 122	07/23/24 18:08	07/25/24 00:14	1

Lab Sample ID: LCS 280-661465/2-A

Matrix: Solid

Analysis Batch: 661573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	1.00	0.9106		mg/Kg		91	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9501		mg/Kg		95	80 - 124
2,4,6-Trinitrotoluene	1.00	1.039		mg/Kg		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	105		83 - 122

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-177298/1-A

Matrix: Solid

Analysis Batch: 177273

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 177298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		07/24/24 11:29	07/24/24 19:25	1
Nitrate as N	0.692	U	1.00	0.692	mg/Kg		07/24/24 11:29	07/24/24 19:25	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		07/24/24 11:29	07/24/24 19:25	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/24/24 11:29	07/24/24 19:25	1
Nitrate Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/24/24 11:29	07/24/24 19:25	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		07/24/24 11:29	07/24/24 19:25	1

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-177298/1-A

Matrix: Solid

Analysis Batch: 177596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 177298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		07/24/24 11:29	07/25/24 14:05	1
Nitrate as N	0.692	U	1.00	0.692	mg/Kg		07/24/24 11:29	07/25/24 14:05	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		07/24/24 11:29	07/25/24 14:05	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/24/24 11:29	07/25/24 14:05	1
Nitrate Nitrite as N	0.502	U	1.00	0.502	mg/Kg		07/24/24 11:29	07/25/24 14:05	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		07/24/24 11:29	07/25/24 14:05	1

Lab Sample ID: MB 860-177298/1-A

Matrix: Solid

Analysis Batch: 177596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 177298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		07/24/24 11:29	07/25/24 20:24	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		07/24/24 11:29	07/25/24 20:24	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		07/24/24 11:29	07/25/24 20:24	1

Lab Sample ID: LCS 860-177298/2-A

Matrix: Solid

Analysis Batch: 177273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 177298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	96.27		mg/Kg		96	90 - 110
Nitrate as N	100	102.2		mg/Kg		102	90 - 110
Fluoride	100	103.8		mg/Kg		104	90 - 110
Nitrite as N	100	95.52		mg/Kg		96	90 - 110
Sulfate	100	94.20		mg/Kg		94	90 - 110

Lab Sample ID: LCS 860-177298/2-A

Matrix: Solid

Analysis Batch: 177596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 177298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	97.72		mg/Kg		98	90 - 110
Nitrate as N	100	103.9		mg/Kg		104	90 - 110
Fluoride	100	105.3		mg/Kg		105	90 - 110
Nitrite as N	100	96.65		mg/Kg		97	90 - 110
Sulfate	100	97.42		mg/Kg		97	90 - 110

Lab Sample ID: LCS 860-177298/2-A

Matrix: Solid

Analysis Batch: 177596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 177298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	98.56		mg/Kg		99	90 - 110
Fluoride	100	106.2		mg/Kg		106	90 - 110
Sulfate	100	105.1		mg/Kg		105	90 - 110

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-177298/3-A

Matrix: Solid

Analysis Batch: 177273

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 177298

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	96.37		mg/Kg		96	90 - 110	0	20
Nitrate as N	100	102.3		mg/Kg		102	90 - 110	0	20
Fluoride	100	103.9		mg/Kg		104	90 - 110	0	20
Nitrite as N	100	95.60		mg/Kg		96	90 - 110	0	20
Sulfate	100	94.40		mg/Kg		94	90 - 110	0	20

Lab Sample ID: LCSD 860-177298/3-A

Matrix: Solid

Analysis Batch: 177596

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 177298

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	97.77		mg/Kg		98	90 - 110	0	20
Nitrate as N	100	104.0		mg/Kg		104	90 - 110	0	20
Fluoride	100	105.4		mg/Kg		105	90 - 110	0	20
Nitrite as N	100	96.85		mg/Kg		97	90 - 110	0	20
Sulfate	100	97.62		mg/Kg		98	90 - 110	0	20

Lab Sample ID: LCSD 860-177298/3-A

Matrix: Solid

Analysis Batch: 177596

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 177298

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	97.35		mg/Kg		97	90 - 110	1	20
Fluoride	100	105.2		mg/Kg		105	90 - 110	1	20
Sulfate	100	97.90		mg/Kg		98	90 - 110	7	20

Lab Sample ID: 860-78488-5 MS

Matrix: Solid

Analysis Batch: 177596

Client Sample ID: Cell18-Square 120-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 177298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.31	J	99.8	94.95		mg/Kg		90	90 - 110		
Nitrate as N	15.5		99.8	109.9		mg/Kg		95	90 - 110		
Fluoride	7.09		99.8	69.61	N1	mg/Kg		63	90 - 110		
Nitrite as N	0.502	U	25.0	11.84	N1	mg/Kg		47	90 - 110		
Sulfate	99.6		99.8	187.2	N1	mg/Kg		88	90 - 110		

Lab Sample ID: 860-78488-5 MSD

Matrix: Solid

Analysis Batch: 177596

Client Sample ID: Cell18-Square 120-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 177298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.31	J	99.6	106.2		mg/Kg		101	90 - 110	11	15
Nitrate as N	15.5		99.6	120.5		mg/Kg		105	90 - 110	9	15
Fluoride	7.09		99.6	80.59	N1	mg/Kg		74	90 - 110	15	15
Nitrite as N	0.502	U	24.9	13.00	N1	mg/Kg		52	90 - 110	9	15
Sulfate	99.6		99.6	205.7		mg/Kg		107	90 - 110	9	15

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 280-661733/1-A

Matrix: Solid

Analysis Batch: 662229

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 661733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0844	U	0.200	0.0844	ug/Kg		07/29/24 08:34	07/30/24 10:22	1
Perfluorohexanesulfonic acid (PFHxS)	0.0216	U	0.200	0.0216	ug/Kg		07/29/24 08:34	07/30/24 10:22	1
Perfluorooctanesulfonic acid (PFOS)	0.0281	U	0.200	0.0281	ug/Kg		07/29/24 08:34	07/30/24 10:22	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	81.1		40 - 130				07/29/24 08:34	07/30/24 10:22	1
13C3 PFHxS	76.6		40 - 130				07/29/24 08:34	07/30/24 10:22	1
13C8 PFOS	91.0		40 - 130				07/29/24 08:34	07/30/24 10:22	1

Lab Sample ID: LCS 280-661733/3-A

Matrix: Solid

Analysis Batch: 662229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	1.25	1.659		ug/Kg		133	70 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.14	1.221		ug/Kg		107	60 - 150
Perfluorooctanesulfonic acid (PFOS)	1.16	1.290		ug/Kg		111	65 - 160
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C8 PFOA	85.6		40 - 130				
13C3 PFHxS	82.5		40 - 130				
13C8 PFOS	75.3		40 - 130				

Lab Sample ID: LCSD 280-661733/4-A

Matrix: Solid

Analysis Batch: 662229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 661733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	1.25	1.380		ug/Kg		110	70 - 150	18	30
Perfluorohexanesulfonic acid (PFHxS)	1.14	1.246		ug/Kg		109	60 - 150	2	30
Perfluorooctanesulfonic acid (PFOS)	1.16	1.145		ug/Kg		98	65 - 160	12	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
13C8 PFOA	80.7		40 - 130						
13C3 PFHxS	77.3		40 - 130						
13C8 PFOS	88.0		40 - 130						

Lab Sample ID: LLCS 280-661733/2-A

Matrix: Solid

Analysis Batch: 662229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661733

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	0.250	0.3098		ug/Kg		124	70 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.2658		ug/Kg		117	60 - 150
Perfluorooctanesulfonic acid (PFOS)	0.233	0.2738		ug/Kg		118	65 - 160

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C8 PFOA	85.8		40 - 130
13C3 PFHxS	77.2		40 - 130
13C8 PFOS	75.4		40 - 130

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 280-661391/1-A
Matrix: Solid
Analysis Batch: 661524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661391

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perchlorate	0.3200	J	0.800	0.0880	ug/Kg		07/23/24 12:18	07/24/24 14:37	1

Lab Sample ID: LCS 280-661391/2-A
Matrix: Solid
Analysis Batch: 661524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661391

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perchlorate	0.800	0.9037		ug/Kg		113	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-178147/1-A
Matrix: Solid
Analysis Batch: 178374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178147

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	0.0478	U	0.200	0.0478	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Arsenic	0.103	U	0.400	0.103	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Barium	0.137	U	0.400	0.137	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Beryllium	0.0506	U	0.200	0.0506	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Cadmium	0.0534	U	0.200	0.0534	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Chromium	0.0540	U	0.400	0.0540	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Copper	0.116	U	0.400	0.116	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Iron	0.824	U	2.00	0.824	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Manganese	0.0427	U	0.200	0.0427	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Lead	0.0634	U	0.200	0.0634	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Antimony	0.213	U	0.400	0.213	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Selenium	0.0945	U	0.200	0.0945	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Thallium	0.0539	U	0.200	0.0539	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Uranium	0.0281	U	0.100	0.0281	mg/Kg		07/29/24 09:28	07/29/24 20:33	1
Zinc	0.117	U	0.400	0.117	mg/Kg		07/29/24 09:28	07/29/24 20:33	1

Lab Sample ID: LCS 860-178147/2-A
Matrix: Solid
Analysis Batch: 178374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178147

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Silver	5.00	4.888		mg/Kg		98	80 - 120
Arsenic	10.0	9.578		mg/Kg		96	80 - 120
Barium	10.0	9.397		mg/Kg		94	80 - 120
Beryllium	10.0	9.398		mg/Kg		94	80 - 120
Cadmium	10.0	9.431		mg/Kg		94	80 - 120

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-178147/2-A

Matrix: Solid

Analysis Batch: 178374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 178147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	10.0	9.588		mg/Kg		96	80 - 120
Copper	10.0	9.475		mg/Kg		95	80 - 120
Iron	50.0	48.02		mg/Kg		96	80 - 120
Manganese	10.0	9.549		mg/Kg		95	80 - 120
Lead	10.0	9.423		mg/Kg		94	80 - 120
Antimony	10.0	9.131		mg/Kg		91	80 - 120
Selenium	10.0	9.461		mg/Kg		95	80 - 120
Thallium	10.0	9.564		mg/Kg		96	80 - 120
Uranium	2.49	2.400		mg/Kg		96	80 - 120
Zinc	10.0	9.447		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-178147/3-A

Matrix: Solid

Analysis Batch: 178374

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 178147

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	5.00	4.890		mg/Kg		98	80 - 120	0	20
Arsenic	10.0	9.533		mg/Kg		95	80 - 120	0	20
Barium	10.0	9.425		mg/Kg		94	80 - 120	0	20
Beryllium	10.0	9.366		mg/Kg		94	80 - 120	0	20
Cadmium	10.0	9.423		mg/Kg		94	80 - 120	0	20
Chromium	10.0	9.564		mg/Kg		96	80 - 120	0	20
Copper	10.0	9.474		mg/Kg		95	80 - 120	0	20
Iron	50.0	48.22		mg/Kg		96	80 - 120	0	20
Manganese	10.0	9.519		mg/Kg		95	80 - 120	0	20
Lead	10.0	9.542		mg/Kg		95	80 - 120	1	20
Antimony	10.0	9.245		mg/Kg		92	80 - 120	1	20
Selenium	10.0	9.444		mg/Kg		94	80 - 120	0	20
Thallium	10.0	9.681		mg/Kg		97	80 - 120	1	20
Uranium	2.49	2.423		mg/Kg		97	80 - 120	1	20
Zinc	10.0	9.474		mg/Kg		95	80 - 120	0	20

Lab Sample ID: 860-78488-1 MS

Matrix: Solid

Analysis Batch: 178374

Client Sample ID: Cell17-Square 6-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 178147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.365	J	4.46	4.370		mg/Kg		90	75 - 125
Arsenic	2.77		8.93	10.07		mg/Kg		82	75 - 125
Barium	75.2		8.93	78.81	4	mg/Kg		41	75 - 125
Beryllium	0.502	J	8.93	7.458		mg/Kg		78	75 - 125
Cadmium	0.226	U	8.93	7.658		mg/Kg		86	75 - 125
Chromium	11.7		8.93	15.82	N1	mg/Kg		46	75 - 125
Copper	5.53		8.93	12.86		mg/Kg		82	75 - 125
Manganese	133		8.93	130.0	4	mg/Kg		-29	75 - 125
Lead	5.72		8.93	13.13		mg/Kg		83	75 - 125
Antimony	1.82		8.93	8.129	N1	mg/Kg		71	75 - 125
Selenium	0.991		8.93	8.221		mg/Kg		81	75 - 125
Thallium	0.228	U	8.93	7.895		mg/Kg		88	75 - 125

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-78488-1 MS

Matrix: Solid

Analysis Batch: 178374

Client Sample ID: Cell17-Square 6-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 178147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.276	J	2.22	2.191		mg/Kg		86	75 - 125
Zinc	24.8		8.93	26.90	N1	mg/Kg		24	75 - 125

Lab Sample ID: 860-78488-1 MS

Matrix: Solid

Analysis Batch: 178469

Client Sample ID: Cell17-Square 6-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 178147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000		44.6	7852	4	mg/Kg		-4894	75 - 125

Lab Sample ID: 860-78488-1 MSD

Matrix: Solid

Analysis Batch: 178374

Client Sample ID: Cell17-Square 6-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 178147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	0.365	J	4.39	4.339		mg/Kg		91	75 - 125	1	20
Arsenic	2.77		8.77	10.04		mg/Kg		83	75 - 125	0	20
Barium	75.2		8.77	76.94	4	mg/Kg		20	75 - 125	2	20
Beryllium	0.502	J	8.77	7.243		mg/Kg		77	75 - 125	3	20
Cadmium	0.226	U	8.77	7.555		mg/Kg		86	75 - 125	1	20
Chromium	11.7		8.77	15.69	N1	mg/Kg		46	75 - 125	1	20
Copper	5.53		8.77	12.72		mg/Kg		82	75 - 125	1	20
Manganese	133		8.77	127.7	4	mg/Kg		-56	75 - 125	2	20
Lead	5.72		8.77	12.86		mg/Kg		81	75 - 125	2	20
Antimony	1.82		8.77	7.880	N1	mg/Kg		69	75 - 125	3	20
Selenium	0.991		8.77	8.193		mg/Kg		82	75 - 125	0	20
Thallium	0.228	U	8.77	7.706		mg/Kg		88	75 - 125	2	20
Uranium	0.276	J	2.18	2.143		mg/Kg		86	75 - 125	2	20
Zinc	24.8		8.77	26.15	N1	mg/Kg		16	75 - 125	3	20

Lab Sample ID: 860-78488-1 MSD

Matrix: Solid

Analysis Batch: 178469

Client Sample ID: Cell17-Square 6-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 178147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	10000		43.9	7635	4	mg/Kg		-5475	75 - 125	3	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 860-177483/10-A

Matrix: Solid

Analysis Batch: 177724

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 177483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		07/25/24 06:51	07/25/24 19:39	1

Eurofins Houston

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-177483/11-A

Matrix: Solid

Analysis Batch: 177724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 177483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	0.1920		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-177483/12-A

Matrix: Solid

Analysis Batch: 177724

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 177483

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	0.1897		mg/Kg		95	80 - 120	1	20

Lab Sample ID: 860-78488-1 MS

Matrix: Solid

Analysis Batch: 177724

Client Sample ID: Cell17-Square 6-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 177483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0131	J	0.185	0.1869		mg/Kg		94	75 - 125

Lab Sample ID: 860-78488-1 MSD

Matrix: Solid

Analysis Batch: 177724

Client Sample ID: Cell17-Square 6-S-3-4-240717

Prep Type: Total/NA

Prep Batch: 177483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0131	J	0.185	0.2015		mg/Kg		102	75 - 125	7	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 860-177693/4-A

Matrix: Solid

Analysis Batch: 177837

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 177693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		07/25/24 17:39	07/25/24 19:17	1

Lab Sample ID: LCS 860-177693/5-A

Matrix: Solid

Analysis Batch: 177837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 177693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	102.6		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-177693/6-A

Matrix: Solid

Analysis Batch: 177837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 177693

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	5.00	6.126		ug/Kg		123	

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: 9045D - pH

Lab Sample ID: 860-78488-2 DU

Matrix: Solid

Analysis Batch: 177952

Client Sample ID: Cell18-Square 63-S-3-4-240717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.3	HF	9.4		SU		1	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-177365/1-A

Matrix: Solid

Analysis Batch: 177489

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg			07/24/24 23:41	1

Lab Sample ID: LCS 860-177365/2-A

Matrix: Solid

Analysis Batch: 177489

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	1.00	1.004		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 860-177365/3-A

Matrix: Solid

Analysis Batch: 177489

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
Phenols, Total	1.00	1.023		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 860-78488-6 MS

Matrix: Solid

Analysis Batch: 177489

Client Sample ID: Cell21-Square 194-S-3-4-240717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.0630	U	1.04	1.091		mg/Kg	☼	105	90 - 110

Lab Sample ID: 860-78488-6 MSD

Matrix: Solid

Analysis Batch: 177489

Client Sample ID: Cell21-Square 194-S-3-4-240717

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.0630	U	0.983	1.051		mg/Kg	☼	107	90 - 110	4	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-178422/1

Matrix: Solid

Analysis Batch: 178422

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			07/30/24 10:18	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 860-178422/2

Matrix: Solid

Analysis Batch: 178422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1027		mg/L		103	80 - 120

Lab Sample ID: LB 860-172404/1-A

Matrix: Solid

Analysis Batch: 178422

Client Sample ID: Method Blank

Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			07/30/24 10:18	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-672192/1-A

Matrix: Solid

Analysis Batch: 675068

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 672192

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.08887	U	0.185	0.186	1.00	0.286	pCi/g	07/24/24 12:19	08/14/24 16:31	1
Radium-228	0.003356	U	0.0134	0.0134		0.304	pCi/g	07/24/24 12:19	08/14/24 16:31	1
Combined Radium 226 + 228	-0.08552	U	0.185	0.186		0.304	pCi/g	07/24/24 12:19	08/14/24 16:31	1

Lab Sample ID: LCS 160-672192/2-A

Matrix: Solid

Analysis Batch: 675068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 672192

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	95.9	101.5		11.0		1.11	pCi/g	106	75 - 125
Cesium-137	24.6	26.71		2.72		0.201	pCi/g	109	75 - 125
Cobalt-60	5.84	5.796		0.672		0.0808	pCi/g	99	75 - 125

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

GC/MS VOA

Analysis Batch: 171139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8260C	171158
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8260C	171158
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8260C	171158
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8260C	171158
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8260C	171158
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8260C	171158
MB 860-171139/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-171139/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-171139/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 171158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	5030C	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	5030C	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	5030C	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	5030C	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	5030C	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	5030C	

Prep Batch: 176998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	5035	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	5035	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	5035	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	5035	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	5035	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	5035	

Analysis Batch: 177046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8260D SIM	176998
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8260D SIM	176998
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8260D SIM	176998
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8260D SIM	176998
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8260D SIM	176998
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8260D SIM	176998
MB 860-177046/7	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-177046/3	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-177046/4	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

GC/MS Semi VOA

Prep Batch: 171106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	3550C	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	3550C	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	3550C	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	3550C	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	3550C	
MB 860-171106/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-171106/2-A	Lab Control Sample	Total/NA	Solid	3550C	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

GC/MS Semi VOA (Continued)

Prep Batch: 171106 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-171106/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Prep Batch: 171167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	3550C	
MB 860-171167/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-171167/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-171167/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-78488-6 MS	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	3550C	
860-78488-6 MSD	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	3550C	

Analysis Batch: 175237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-171106/1-A	Method Blank	Total/NA	Solid	8270D	171106
LCS 860-171106/2-A	Lab Control Sample	Total/NA	Solid	8270D	171106
LCSD 860-171106/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	171106

Analysis Batch: 175281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8270D	171167
MB 860-171167/1-A	Method Blank	Total/NA	Solid	8270D	171167
LCS 860-171167/2-A	Lab Control Sample	Total/NA	Solid	8270D	171167
LCSD 860-171167/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	171167
860-78488-6 MS	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8270D	171167
860-78488-6 MSD	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8270D	171167

Analysis Batch: 176773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8270D	171106
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8270D	171106
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8270D	171106

Analysis Batch: 177210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8270D	171106
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8270D	171106

Prep Batch: 678577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	3546	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	3546	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	3546	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	3546	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	3546	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	3546	
MB 400-678577/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-678577/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-78488-1 MS	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	3546	
860-78488-1 MSD	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	3546	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

GC/MS Semi VOA

Analysis Batch: 678736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8270E	678577
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8270E	678577
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8270E	678577
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8270E	678577
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8270E	678577
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8270E	678577
MB 400-678577/1-A	Method Blank	Total/NA	Solid	8270E	678577
LCS 400-678577/2-A	Lab Control Sample	Total/NA	Solid	8270E	678577
860-78488-1 MS	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8270E	678577
860-78488-1 MSD	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8270E	678577

GC VOA

Prep Batch: 177082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	5035	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	5035	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	5035	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	5035	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	5035	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	5035	

Analysis Batch: 177418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8015D	177082
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8015D	177082
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8015D	177082
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8015D	177082
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8015D	177082
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8015D	177082
MB 860-177418/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-177418/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-177418/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

GC Semi VOA

Analysis Batch: 171128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8082A	171151
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8082A	171151
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8082A	171151
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8082A	171151
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8082A	171151
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8082A	171151
MB 860-171151/1-A	Method Blank	Total/NA	Solid	8082A	171151
LCS 860-171151/4-A	Lab Control Sample	Total/NA	Solid	8082A	171151
LCSD 860-171151/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	171151

Prep Batch: 171151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	3550C	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	3550C	

Eurofins Houston

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

GC Semi VOA (Continued)

Prep Batch: 171151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	3550C	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	3550C	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	3550C	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	3550C	
MB 860-171151/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-171151/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-171151/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-171151/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-171151/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 176812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-171151/1-A	Method Blank	Total/NA	Solid	8081B	171151
LCS 860-171151/2-A	Lab Control Sample	Total/NA	Solid	8081B	171151
LCSD 860-171151/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	171151

Analysis Batch: 177228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8081B	171151
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8081B	171151
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8081B	171151
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8081B	171151
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8081B	171151
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8081B	171151

Prep Batch: 778072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	3541	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	3541	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	3541	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	3541	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	3541	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	3541	
MB 500-778072/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-778072/2-A	Lab Control Sample	Total/NA	Solid	3541	
860-78488-6 MS	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	3541	
860-78488-6 MSD	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	3541	

Analysis Batch: 778359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8015D	778072
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8015D	778072
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8015D	778072
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8015D	778072
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8015D	778072
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8015D	778072
MB 500-778072/1-A	Method Blank	Total/NA	Solid	8015D	778072
LCS 500-778072/2-A	Lab Control Sample	Total/NA	Solid	8015D	778072
860-78488-6 MS	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8015D	778072
860-78488-6 MSD	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8015D	778072

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

HPLC/IC

Analysis Batch: 177273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	9056A	177298
MB 860-177298/1-A	Method Blank	Total/NA	Solid	9056A	177298
LCS 860-177298/2-A	Lab Control Sample	Total/NA	Solid	9056A	177298
LCSD 860-177298/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	177298

Analysis Batch: 177274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	9056A	177298
MB 860-177298/1-A	Method Blank	Total/NA	Solid	9056A	177298
LCS 860-177298/2-A	Lab Control Sample	Total/NA	Solid	9056A	177298
LCSD 860-177298/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	177298

Prep Batch: 177298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	300_Prep	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	300_Prep	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	300_Prep	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	300_Prep	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	300_Prep	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	300_Prep	
MB 860-177298/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-177298/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-177298/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-78488-5 MS	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	300_Prep	
860-78488-5 MSD	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	300_Prep	

Analysis Batch: 177596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	9056A	177298
MB 860-177298/1-A	Method Blank	Total/NA	Solid	9056A	177298
MB 860-177298/1-A	Method Blank	Total/NA	Solid	9056A	177298
LCS 860-177298/2-A	Lab Control Sample	Total/NA	Solid	9056A	177298
LCS 860-177298/2-A	Lab Control Sample	Total/NA	Solid	9056A	177298
LCSD 860-177298/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	177298
LCSD 860-177298/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	177298
860-78488-5 MS	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-5 MSD	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	9056A	177298

Analysis Batch: 177597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	9056A	177298
MB 860-177298/1-A	Method Blank	Total/NA	Solid	9056A	177298
LCS 860-177298/2-A	Lab Control Sample	Total/NA	Solid	9056A	177298

Eurofins Houston

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

HPLC/IC (Continued)

Analysis Batch: 177597 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-177298/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	177298
860-78488-5 MS	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	9056A	177298
860-78488-5 MSD	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	9056A	177298

Drying Batch: 661265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	Prep/Air Dry	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	Prep/Air Dry	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	Prep/Air Dry	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	Prep/Air Dry	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	Prep/Air Dry	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 661465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8330B	661265
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8330B	661265
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8330B	661265
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8330B	661265
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8330B	661265
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8330B	661265
MB 280-661465/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-661465/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 661573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	8330B	661465
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	8330B	661465
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	8330B	661465
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	8330B	661465
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	8330B	661465
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	8330B	661465
MB 280-661465/1-A	Method Blank	Total/NA	Solid	8330B	661465
LCS 280-661465/2-A	Lab Control Sample	Total/NA	Solid	8330B	661465

LCMS

Prep Batch: 661391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	6850 Solid Prep	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	6850 Solid Prep	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	6850 Solid Prep	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	6850 Solid Prep	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	6850 Solid Prep	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	6850 Solid Prep	
MB 280-661391/1-A	Method Blank	Total/NA	Solid	6850 Solid Prep	
LCS 280-661391/2-A	Lab Control Sample	Total/NA	Solid	6850 Solid Prep	

Analysis Batch: 661524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	6850	661391

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

LCMS (Continued)

Analysis Batch: 661524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	6850	661391
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	6850	661391
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	6850	661391
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	6850	661391
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	6850	661391
MB 280-661391/1-A	Method Blank	Total/NA	Solid	6850	661391
LCS 280-661391/2-A	Lab Control Sample	Total/NA	Solid	6850	661391

Prep Batch: 661733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	1633 Shake	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	1633 Shake	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	1633 Shake	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	1633 Shake	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	1633 Shake	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	1633 Shake	
MB 280-661733/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 280-661733/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LCSD 280-661733/4-A	Lab Control Sample Dup	Total/NA	Solid	1633 Shake	
LLCS 280-661733/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 662229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	1633	661733
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	1633	661733
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	1633	661733
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	1633	661733
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	1633	661733
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	1633	661733
MB 280-661733/1-A	Method Blank	Total/NA	Solid	1633	661733
LCS 280-661733/3-A	Lab Control Sample	Total/NA	Solid	1633	661733
LCSD 280-661733/4-A	Lab Control Sample Dup	Total/NA	Solid	1633	661733
LLCS 280-661733/2-A	Lab Control Sample	Total/NA	Solid	1633	661733

Metals

Prep Batch: 177483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	7471B	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	7471B	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	7471B	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	7471B	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	7471B	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	7471B	
MB 860-177483/10-A	Method Blank	Total/NA	Solid	7471B	
LCS 860-177483/11-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 860-177483/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	
860-78488-1 MS	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	7471B	
860-78488-1 MSD	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	7471B	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Metals

Analysis Batch: 177724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	7471B	177483
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	7471B	177483
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	7471B	177483
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	7471B	177483
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	7471B	177483
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	7471B	177483
MB 860-177483/10-A	Method Blank	Total/NA	Solid	7471B	177483
LCS 860-177483/11-A	Lab Control Sample	Total/NA	Solid	7471B	177483
LCSD 860-177483/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	177483
860-78488-1 MS	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	7471B	177483
860-78488-1 MSD	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	7471B	177483

Prep Batch: 178147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	3051A	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	3051A	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	3051A	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	3051A	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	3051A	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	3051A	
MB 860-178147/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-178147/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-178147/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-78488-1 MS	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	3051A	
860-78488-1 MSD	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	3051A	

Analysis Batch: 178374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	6020A	178147
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	6020A	178147
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	6020A	178147
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	6020A	178147
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	6020A	178147
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	6020A	178147
MB 860-178147/1-A	Method Blank	Total/NA	Solid	6020A	178147
LCS 860-178147/2-A	Lab Control Sample	Total/NA	Solid	6020A	178147
LCSD 860-178147/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	178147
860-78488-1 MS	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	6020A	178147
860-78488-1 MSD	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	6020A	178147

Analysis Batch: 178469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	6020A	178147
860-78488-1 MS	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	6020A	178147
860-78488-1 MSD	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	6020A	178147

General Chemistry

Leach Batch: 172404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	7 Day Leach	Solid	335.521	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

General Chemistry (Continued)

Leach Batch: 172404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-2	Cell18-Square 63-S-3-4-240717	7 Day Leach	Solid	335.521	
860-78488-3	Cell18-Square 142-S-3-4-240717	7 Day Leach	Solid	335.521	
860-78488-4	Cell18-Square 140-S-3-4-240717	7 Day Leach	Solid	335.521	
860-78488-5	Cell18-Square 120-S-3-4-240717	7 Day Leach	Solid	335.521	
860-78488-6	Cell21-Square 194-S-3-4-240717	7 Day Leach	Solid	335.521	
LB 860-172404/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 175212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	Moisture - 2540	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	Moisture - 2540	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	Moisture - 2540	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	Moisture - 2540	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	Moisture - 2540	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	Moisture - 2540	
MB 860-175212/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-78488-5 DU	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	Moisture - 2540	

Leach Batch: 177365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-2	Cell18-Square 63-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-3	Cell18-Square 142-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-4	Cell18-Square 140-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-5	Cell18-Square 120-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-6	Cell21-Square 194-S-3-4-240717	Soluble	Solid	DI Leach	
MB 860-177365/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 860-177365/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 860-177365/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
860-78488-6 MS	Cell21-Square 194-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-6 MSD	Cell21-Square 194-S-3-4-240717	Soluble	Solid	DI Leach	

Analysis Batch: 177489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Soluble	Solid	9066	177365
860-78488-2	Cell18-Square 63-S-3-4-240717	Soluble	Solid	9066	177365
860-78488-3	Cell18-Square 142-S-3-4-240717	Soluble	Solid	9066	177365
860-78488-4	Cell18-Square 140-S-3-4-240717	Soluble	Solid	9066	177365
860-78488-5	Cell18-Square 120-S-3-4-240717	Soluble	Solid	9066	177365
860-78488-6	Cell21-Square 194-S-3-4-240717	Soluble	Solid	9066	177365
MB 860-177365/1-A	Method Blank	Soluble	Solid	9066	177365
LCS 860-177365/2-A	Lab Control Sample	Soluble	Solid	9066	177365
LCSD 860-177365/3-A	Lab Control Sample Dup	Soluble	Solid	9066	177365
860-78488-6 MS	Cell21-Square 194-S-3-4-240717	Soluble	Solid	9066	177365
860-78488-6 MSD	Cell21-Square 194-S-3-4-240717	Soluble	Solid	9066	177365

Prep Batch: 177693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	9012B	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	9012B	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	9012B	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

General Chemistry (Continued)

Prep Batch: 177693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	9012B	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	9012B	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	9012B	
MB 860-177693/4-A	Method Blank	Total/NA	Solid	9012B	
LCS 860-177693/5-A	Lab Control Sample	Total/NA	Solid	9012B	
LLCS 860-177693/6-A	Lab Control Sample	Total/NA	Solid	9012B	

Leach Batch: 177705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-2	Cell18-Square 63-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-3	Cell18-Square 142-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-4	Cell18-Square 140-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-5	Cell18-Square 120-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-6	Cell21-Square 194-S-3-4-240717	Soluble	Solid	DI Leach	
860-78488-2 DU	Cell18-Square 63-S-3-4-240717	Soluble	Solid	DI Leach	

Analysis Batch: 177837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	9012B	177693
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	9012B	177693
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	9012B	177693
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	9012B	177693
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	9012B	177693
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	9012B	177693
MB 860-177693/4-A	Method Blank	Total/NA	Solid	9012B	177693
LCS 860-177693/5-A	Lab Control Sample	Total/NA	Solid	9012B	177693
LLCS 860-177693/6-A	Lab Control Sample	Total/NA	Solid	9012B	177693

Analysis Batch: 177952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-2	Cell18-Square 63-S-3-4-240717	Soluble	Solid	9045D	177705
860-78488-4	Cell18-Square 140-S-3-4-240717	Soluble	Solid	9045D	177705
860-78488-5	Cell18-Square 120-S-3-4-240717	Soluble	Solid	9045D	177705
860-78488-6	Cell21-Square 194-S-3-4-240717	Soluble	Solid	9045D	177705
860-78488-2 DU	Cell18-Square 63-S-3-4-240717	Soluble	Solid	9045D	177705

Analysis Batch: 178083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Soluble	Solid	9045D	177705
860-78488-3	Cell18-Square 142-S-3-4-240717	Soluble	Solid	9045D	177705

Analysis Batch: 178422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	7 Day Leach	Solid	SM 2540C	172404
860-78488-2	Cell18-Square 63-S-3-4-240717	7 Day Leach	Solid	SM 2540C	172404
860-78488-3	Cell18-Square 142-S-3-4-240717	7 Day Leach	Solid	SM 2540C	172404
860-78488-4	Cell18-Square 140-S-3-4-240717	7 Day Leach	Solid	SM 2540C	172404
860-78488-5	Cell18-Square 120-S-3-4-240717	7 Day Leach	Solid	SM 2540C	172404
860-78488-6	Cell21-Square 194-S-3-4-240717	7 Day Leach	Solid	SM 2540C	172404
LB 860-172404/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	172404

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

General Chemistry (Continued)

Analysis Batch: 178422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-178422/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 860-178422/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

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Leach Batch: 671784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	Dry and Grind	
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	Dry and Grind	
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	Dry and Grind	
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	Dry and Grind	
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	Dry and Grind	
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	Dry and Grind	

Prep Batch: 672192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78488-1	Cell17-Square 6-S-3-4-240717	Total/NA	Solid	Fill_Geo-21	671784
860-78488-2	Cell18-Square 63-S-3-4-240717	Total/NA	Solid	Fill_Geo-21	671784
860-78488-3	Cell18-Square 142-S-3-4-240717	Total/NA	Solid	Fill_Geo-21	671784
860-78488-4	Cell18-Square 140-S-3-4-240717	Total/NA	Solid	Fill_Geo-21	671784
860-78488-5	Cell18-Square 120-S-3-4-240717	Total/NA	Solid	Fill_Geo-21	671784
860-78488-6	Cell21-Square 194-S-3-4-240717	Total/NA	Solid	Fill_Geo-21	671784
MB 160-672192/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-672192/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell17-Square 6-S-3-4-240717
Date Collected: 07/17/24 09:40
Date Received: 07/18/24 10:03

Lab Sample ID: 860-78488-1
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	5030C			4.97 g	5 mL	171158	07/19/24 10:33	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	171139	07/19/24 13:13	MTMG	EET HOU
Total/NA	Prep	5035			5.00 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 16:31	MTMG	EET HOU
Total/NA	Prep	3550C			30.01 g	1 mL	171106	07/19/24 10:44	BH	EET HOU
Total/NA	Analysis	8270D		1	1 MJ/Kg	1 MJ/Kg	176773	07/23/24 18:54	PXS	EET HOU
Total/NA	Prep	3550C			29.96 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			177228	07/24/24 12:18	KM	EET HOU
Total/NA	Prep	3550C			29.96 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 16:05	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.70 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 03:17	JZ	EET DEN
Total/NA	Prep	300_Prep			5.03 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177273	07/24/24 22:07	A1S	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177274	07/24/24 22:07	HN	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	178147	07/29/24 09:29	PB	EET HOU
Total/NA	Analysis	6020A		5			178374	07/29/24 20:39	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	178147	07/29/24 09:29	PB	EET HOU
Total/NA	Analysis	6020A		100			178469	07/30/24 10:40	DP	EET HOU
Total/NA	Prep	7471B			.52 g	50 mL	177483	07/25/24 06:51	AGR	EET HOU
Total/NA	Analysis	7471B		1			177724	07/25/24 19:43	SHZ	EET HOU
Total/NA	Prep	9012B			0.50 g	6 mL	177693	07/25/24 17:39	SA	EET HOU
Total/NA	Analysis	9012B		1			177837	07/25/24 19:29	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177705	07/25/24 18:52	MR	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	178083	07/28/24 20:09	RY	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU
7 Day Leach	Leach	335.521			50.00 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
Completed:								07/27/24 09:00	1	
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671784	07/22/24 13:00	HGB	EET SL
Total/NA	Prep	Fill_Geo-21			352.6000 g	1.0 g	672192	07/24/24 12:19	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			675066	08/14/24 22:31	CAH	EET SL

Client Sample ID: Cell17-Square 6-S-3-4-240717
Date Collected: 07/17/24 09:40
Date Received: 07/18/24 10:03

Lab Sample ID: 860-78488-1
Matrix: Solid
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.39 g	1 mL	678577	07/22/24 09:57	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678736	07/23/24 14:25	JAW	EET PEN
Total/NA	Prep	5035			4.98 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 04:18	KLV	EET HOU

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell17-Square 6-S-3-4-240717

Lab Sample ID: 860-78488-1

Date Collected: 07/17/24 09:40

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2271 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 16:53	H7CM	EET CHI
Total/NA	Prep	1633 Shake			2.0 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 16:13	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			1.0284 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 15:53	MAB	EET DEN
Soluble	Leach	DI Leach			5.47 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/25/24 00:18	SC	EET HOU

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	171158	07/19/24 10:33	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	171139	07/19/24 13:34	MTMG	EET HOU
Total/NA	Prep	5035			5.01 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 16:56	MTMG	EET HOU
Total/NA	Prep	3550C			29.96 g	1 mL	171106	07/19/24 10:44	BH	EET HOU
Total/NA	Analysis	8270D		1	1 MJ/Kg	1 MJ/Kg	176773	07/23/24 19:18	PXS	EET HOU
Total/NA	Prep	3550C			29.97 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			177228	07/24/24 12:35	KM	EET HOU
Total/NA	Prep	3550C			29.97 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 16:18	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.58 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 03:40	JZ	EET DEN
Total/NA	Prep	300_Prep			5.02 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177273	07/24/24 22:14	A1S	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177274	07/24/24 22:14	HN	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	178147	07/29/24 09:29	PB	EET HOU
Total/NA	Analysis	6020A		5			178374	07/29/24 20:55	DP	EET HOU
Total/NA	Prep	7471B			.55 g	50 mL	177483	07/25/24 06:51	AGR	EET HOU
Total/NA	Analysis	7471B		1			177724	07/25/24 19:50	SHZ	EET HOU
Total/NA	Prep	9012B			0.50 g	6 mL	177693	07/25/24 17:39	SA	EET HOU
Total/NA	Analysis	9012B		1			177837	07/25/24 19:33	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177705	07/25/24 18:52	MR	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	177952	07/26/24 19:11	MR	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU
7 Day Leach	Leach	335.521			50.03 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU

Completed: 07/27/24 09:00¹

Eurofins Houston

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671784	07/22/24 13:00	HGB	EET SL
Total/NA	Prep	Fill_Geo-21			309.1000 g	1.0 g	672192	07/24/24 12:19	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			675261	08/15/24 10:35	CAH	EET SL

Client Sample ID: Cell18-Square 63-S-3-4-240717

Lab Sample ID: 860-78488-2

Date Collected: 07/17/24 10:50

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.34 g	1 mL	678577	07/22/24 09:57	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678736	07/23/24 14:52	JAW	EET PEN
Total/NA	Prep	5035			5.03 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 04:51	KLV	EET HOU
Total/NA	Prep	3541			15.5204 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
Completed: 07/24/24 13:00 ¹										
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 18:05	H7CM	EET CHI
Total/NA	Prep	1633 Shake			2.2 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 16:32	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			1.0176 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 15:58	MAB	EET DEN
Soluble	Leach	DI Leach			5.21 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/25/24 00:21	SC	EET HOU

Client Sample ID: Cell18-Square 142-S-3-4-240717

Lab Sample ID: 860-78488-3

Date Collected: 07/17/24 12:00

Matrix: Solid

Date Received: 07/18/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	171158	07/19/24 10:33	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	171139	07/19/24 13:56	MTMG	EET HOU
Total/NA	Prep	5035			5.05 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 17:21	MTMG	EET HOU
Total/NA	Prep	3550C			30.02 g	1 mL	171106	07/19/24 10:44	BH	EET HOU
Total/NA	Analysis	8270D		1	1 MJ/Kg	1 MJ/Kg	176773	07/23/24 19:43	PXS	EET HOU
Total/NA	Prep	3550C			30.02 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			177228	07/24/24 13:10	KM	EET HOU
Total/NA	Prep	3550C			30.02 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 16:30	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.40 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 04:26	JZ	EET DEN
Total/NA	Prep	300_Prep			5.04 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177273	07/24/24 22:21	A1S	EET HOU
Total/NA	Prep	300_Prep			5.04 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177274	07/24/24 22:21	HN	EET HOU

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 142-S-3-4-240717

Lab Sample ID: 860-78488-3

Date Collected: 07/17/24 12:00

Matrix: Solid

Date Received: 07/18/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	178147	07/29/24 09:29	PB	EET HOU
Total/NA	Analysis	6020A		5			178374	07/29/24 20:57	DP	EET HOU
Total/NA	Prep	7471B			.5 g	50 mL	177483	07/25/24 06:51	AGR	EET HOU
Total/NA	Analysis	7471B		1			177724	07/25/24 19:51	SHZ	EET HOU
Total/NA	Prep	9012B			0.51 g	6 mL	177693	07/25/24 17:39	SA	EET HOU
Total/NA	Analysis	9012B		1			177837	07/25/24 19:35	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177705	07/25/24 18:52	MR	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	178083	07/28/24 20:09	RY	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU
7 Day Leach	Leach	335.521			50.07 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
Completed:								07/27/24 09:00 ¹		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671784	07/22/24 13:00	HGB	EET SL
Total/NA	Prep	Fill_Geo-21			316.5000 g	1.0 g	672192	07/24/24 12:19	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			675261	08/15/24 14:01	CAH	EET SL

Client Sample ID: Cell18-Square 142-S-3-4-240717

Lab Sample ID: 860-78488-3

Date Collected: 07/17/24 12:00

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.53 g	1 mL	678577	07/22/24 09:57	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678736	07/23/24 15:19	JAW	EET PEN
Total/NA	Prep	5035			5.04 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 05:25	KLV	EET HOU
Total/NA	Prep	3541			15.1272 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
Completed:								07/24/24 13:00 ¹		
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 18:29	H7CM	EET CHI
Total/NA	Prep	1633 Shake			2.4 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 16:52	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			0.9591 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 16:15	MAB	EET DEN
Soluble	Leach	DI Leach			4.58 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/25/24 00:24	SC	EET HOU

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	171158	07/19/24 10:33	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	171139	07/19/24 14:17	MTMG	EET HOU
Total/NA	Prep	5035			5.02 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 17:47	MTMG	EET HOU

Eurofins Houston

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.02 g	1 mL	171106	07/19/24 10:44	BH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	177210	07/24/24 14:11	PXS	EET HOU
Total/NA	Prep	3550C			30.06 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			177228	07/24/24 13:26	KM	EET HOU
Total/NA	Prep	3550C			30.06 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 16:42	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.76 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 04:49	JZ	EET DEN
Total/NA	Prep	300_Prep			5.01 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177273	07/24/24 22:28	A1S	EET HOU
Total/NA	Prep	300_Prep			5.01 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177274	07/24/24 22:28	HN	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	178147	07/29/24 09:29	PB	EET HOU
Total/NA	Analysis	6020A		5			178374	07/29/24 20:59	DP	EET HOU
Total/NA	Prep	7471B			.53 g	50 mL	177483	07/25/24 06:51	AGR	EET HOU
Total/NA	Analysis	7471B		1			177724	07/25/24 19:55	SHZ	EET HOU
Total/NA	Prep	9012B			0.50 g	6 mL	177693	07/25/24 17:39	SA	EET HOU
Total/NA	Analysis	9012B		1			177837	07/25/24 19:36	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177705	07/25/24 18:52	MR	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	177952	07/26/24 19:11	MR	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU
7 Day Leach	Leach	335.521			50.04 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
Completed: 07/27/24 09:00 ¹										
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671784	07/22/24 13:00	HGB	EET SL
Total/NA	Prep	Fill_Geo-21			334.9000 g	1.0 g	672192	07/24/24 12:19	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			675277	08/15/24 14:05	CAH	EET SL

Client Sample ID: Cell18-Square 140-S-3-4-240717

Lab Sample ID: 860-78488-4

Date Collected: 07/17/24 13:20

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.24 g	1 mL	678577	07/22/24 09:57	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678736	07/23/24 15:45	JAW	EET PEN
Total/NA	Prep	5035			4.98 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 05:58	KLV	EET HOU
Total/NA	Prep	3541			15.2285 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
Completed: 07/24/24 13:00 ¹										
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 18:53	H7CM	EET CHI
Total/NA	Prep	1633 Shake			2.1 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 17:11	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			1.0132 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 16:20	MAB	EET DEN

Eurofins Houston

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 140-S-3-4-240717
Date Collected: 07/17/24 13:20
Date Received: 07/18/24 10:03

Lab Sample ID: 860-78488-4
Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.63 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/25/24 00:26	SC	EET HOU

Client Sample ID: Cell18-Square 120-S-3-4-240717
Date Collected: 07/17/24 14:00
Date Received: 07/18/24 10:03

Lab Sample ID: 860-78488-5
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	5030C			5.01 g	5 mL	171158	07/19/24 10:33	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	171139	07/19/24 14:38	MTMG	EET HOU
Total/NA	Prep	5035			5.01 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 18:12	MTMG	EET HOU
Total/NA	Prep	3550C			29.97 g	1 mL	171106	07/19/24 10:44	BH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	177210	07/24/24 14:32	PXS	EET HOU
Total/NA	Prep	3550C			29.95 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			177228	07/24/24 13:44	KM	EET HOU
Total/NA	Prep	3550C			29.95 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 16:55	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.37 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 05:12	JZ	EET DEN
Total/NA	Prep	300_Prep			5 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177596	07/25/24 14:40	WP	EET HOU
Total/NA	Prep	300_Prep			5 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177597	07/25/24 14:40	WP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	178147	07/29/24 09:29	PB	EET HOU
Total/NA	Analysis	6020A		5			178374	07/29/24 21:01	DP	EET HOU
Total/NA	Prep	7471B			.52 g	50 mL	177483	07/25/24 06:51	AGR	EET HOU
Total/NA	Analysis	7471B		1			177724	07/25/24 19:57	SHZ	EET HOU
Total/NA	Prep	9012B			0.51 g	6 mL	177693	07/25/24 17:39	SA	EET HOU
Total/NA	Analysis	9012B		1			177837	07/25/24 19:38	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177705	07/25/24 18:52	MR	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	177952	07/26/24 19:11	MR	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU
7 Day Leach	Leach	335.521			50.09 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
Completed:								07/27/24 09:00 ¹		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671784	07/22/24 13:00	HGB	EET SL
Total/NA	Prep	Fill_Geo-21			318.1000 g	1.0 g	672192	07/24/24 12:19	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			675278	08/15/24 14:05	CAH	EET SL

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell18-Square 120-S-3-4-240717

Lab Sample ID: 860-78488-5

Date Collected: 07/17/24 14:00

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.25 g	1 mL	678577	07/22/24 09:57	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678736	07/23/24 16:12	JAW	EET PEN
Total/NA	Prep	5035			5.05 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 06:31	KLV	EET HOU
Total/NA	Prep	3541			15.6635 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
Completed: 07/24/24 13:00 ¹										
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 19:17	H7CM	EET CHI
Total/NA	Prep	1633 Shake			2.1 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 17:31	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			1.0252 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 16:25	MAB	EET DEN
Soluble	Leach	DI Leach			4.77 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/25/24 00:29	SC	EET HOU

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	171158	07/19/24 10:33	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	171139	07/19/24 15:00	MTMG	EET HOU
Total/NA	Prep	5035			5.05 g	5 mL	176998	07/23/24 10:58	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	177046	07/23/24 18:37	MTMG	EET HOU
Total/NA	Prep	3550C			30.01 g	1 mL	171167	07/19/24 11:11	BH	EET HOU
Total/NA	Analysis	8270D		1	1 MJ/Kg	1 MJ/Kg	175281	07/22/24 16:38	LPL	EET HOU
Total/NA	Prep	3550C			29.97 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8081B		1			177228	07/24/24 14:00	KM	EET HOU
Total/NA	Prep	3550C			29.97 g	5 mL	171151	07/19/24 09:45	BH	EET HOU
Total/NA	Analysis	8082A		1			171128	07/19/24 17:07	KM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	661265	07/22/24 12:04	DCL	EET DEN
Total/NA	Prep	8330B			+10.35 g	40 mL	661465	07/23/24 18:08	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	661573	07/25/24 05:35	JZ	EET DEN
Total/NA	Prep	300_Prep			5 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177596	07/25/24 15:01	WP	EET HOU
Total/NA	Prep	300_Prep			5 g	50 mL	177298	07/24/24 11:29	AC	EET HOU
Total/NA	Analysis	9056A		1			177597	07/25/24 15:01	WP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	178147	07/29/24 09:29	PB	EET HOU
Total/NA	Analysis	6020A		5			178374	07/29/24 21:03	DP	EET HOU
Total/NA	Prep	7471B			.54 g	50 mL	177483	07/25/24 06:51	AGR	EET HOU
Total/NA	Analysis	7471B		1			177724	07/25/24 19:58	SHZ	EET HOU
Total/NA	Prep	9012B			0.51 g	6 mL	177693	07/25/24 17:39	SA	EET HOU
Total/NA	Analysis	9012B		1			177837	07/25/24 19:39	LD	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	177705	07/25/24 18:52	MR	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	177952	07/26/24 19:11	MR	EET HOU
Total/NA	Analysis	Moisture - 2540		1			175212	07/22/24 08:20	MLEI	EET HOU

Eurofins Houston

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			50.03 g	1000 mL	172404	07/20/24 09:00	JCM	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	178422	07/30/24 10:18	TR	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	671784	07/22/24 13:00	HGB	EET SL
Total/NA	Prep	Fill_Geo-21			310.8000 g	1.0 g	672192	07/24/24 12:19	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			675281	08/15/24 14:06	CAH	EET SL

Client Sample ID: Cell21-Square 194-S-3-4-240717

Lab Sample ID: 860-78488-6

Date Collected: 07/17/24 15:10

Matrix: Solid

Date Received: 07/18/24 10:03

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	1 mL	678577	07/22/24 09:57	YC	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	678736	07/23/24 16:39	JAW	EET PEN
Total/NA	Prep	5035			5.04 g	5 mL	177082	07/23/24 13:01	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177418	07/25/24 07:04	KLV	EET HOU
Total/NA	Prep	3541			15.2014 g	2.5 mL	778072	07/24/24 07:31	OP	EET CHI
Completed:								07/24/24 13:00 ¹		
Total/NA	Analysis	8015D		1	1 mL	1 mL	778359	07/25/24 19:41	H7CM	EET CHI
Total/NA	Prep	1633 Shake			2.0 g	5.0 mL	661733	07/29/24 08:34	SSS	EET DEN
Total/NA	Analysis	1633		1	1 mL	1 mL	662229	07/30/24 17:50	ANE	EET DEN
Total/NA	Prep	6850 Solid Prep			0.9368 g	10 mL	661391	07/23/24 12:18	DCL	EET DEN
Total/NA	Analysis	6850		1	1 mL	1 mL	661524	07/24/24 16:31	MAB	EET DEN
Soluble	Leach	DI Leach			5.13 g	50 mL	177365	07/24/24 15:14	BW	EET HOU
Soluble	Analysis	9066		1	50 mL	50 mL	177489	07/25/24 00:32	SC	EET HOU

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Houston

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	06-30-25
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	08-01-24
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	08-01-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	08-04-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78488-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Denver (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	07-31-24
New Hampshire	NELAP	2053	08-12-24
New Jersey	NELAP	230001	08-04-24
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

Laboratory: Eurofins St. Louis

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24 *
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	10-01-24
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-24 *
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24 *
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

Method Summary

Client: Arcadis U.S., Inc.

Job ID: 860-78488-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	EET DEN
9056A	Anions, Ion Chromatography	SW846	EET HOU
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET DEN
6850	Perchlorate by LC/MS or LC/MS/MS	EPA	EET DEN
6020A	Metals (ICP/MS)	SW846	EET HOU
7471B	Mercury (CVAA)	SW846	EET HOU
9012B	Cyanide, Total and/or Amenable	SW846	EET HOU
9045D	pH	SW846	EET HOU
9066	Phenolics, Total Recoverable	SW846	EET HOU
Moisture - 2540	Percent Moisture	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	EET SL
1633 Shake	Shake Extraction with SPE	EPA	EET DEN
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET PEN
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
6850 Solid Prep	Deionized Water Leach Prep	EPA	EET DEN
7471B	Preparation, Mercury	SW846	EET HOU
8330B	Sonication Extraction (Explosives)	SW846	EET DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU
Dry and Grind	Preparation, Dry and Grind	None	EET SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	EET SL
Prep/Air Dry	Preparation, Air drying	None	EET DEN

Protocol References:

ASTM = ASTM International

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAC-30 = Chapter 30 Of The Texas Administrative Code, May 19, 1995.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Houston

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78488-1

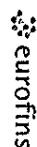
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-78488-1	Cell17-Square 6-S-3-4-240717	Solid	07/17/24 09:40	07/18/24 10:03
860-78488-2	Cell18-Square 63-S-3-4-240717	Solid	07/17/24 10:50	07/18/24 10:03
860-78488-3	Cell18-Square 142-S-3-4-240717	Solid	07/17/24 12:00	07/18/24 10:03
860-78488-4	Cell18-Square 140-S-3-4-240717	Solid	07/17/24 13:20	07/18/24 10:03
860-78488-5	Cell18-Square 120-S-3-4-240717	Solid	07/17/24 14:00	07/18/24 10:03
860-78488-6	Cell21-Square 194-S-3-4-240717	Solid	07/17/24 15:10	07/18/24 10:03

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Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



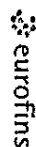
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Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environmental Testing

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Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins

End-of-Form Test

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4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

 eurofins

Environment Testing

Client Information (Sub Contract Lab)				Lab PM: Kudchadkar, Sachin G		Carrier Tracking No(s): 860-139254.1				
Client Contact Shipping/Receiving				Phone		Page: Page 1 of 1				
Company: TestAmerica Laboratories, Inc.				E-Mail: Sachin.Kudchadkar@et.eurofinsus.com		Job #: 860-78488-1				
Address: 13715 Rider Trail North,				Accreditations Required (See note) NELAP - Texas		Preservation Codes:				
City: Earth City				Due Date Requested: 8/6/2024		Analysis Requested				
State, Zip: MO. 63045				TAT Requested (days):						
Phone: 314-298-8566(Tel) 314-298-8757(Fax)				PO #:						
Email:				WO #:						
Project Name: Chevron - Jal Land Farm Soils				Project #: 86002103						
Site:				SSOW#:						
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=biomass, A=air)	Field Filtered Sample (Yes or No)	Perform ICP/MS/ED (Yes or No)	GA, Pb, R, Radium, Zr, Zr, Zr	Total Number of Containers	Special Instructions/Note:
Cell17-Square 6-S-3-4-240717 (860-78488-1)		7/17/24	09:40 Central		Solid			X	2	
Cell18-Square 63-S-3-4-240717 (860-78488-2)		7/17/24	10:50 Central		Solid			X	2	
Cell18-Square 142-S-3-4-240717 (860-78488-3)		7/17/24	12:00 Central		Solid			X	2	
Cell18-Square 140-S-3-4-240717 (860-78488-4)		7/17/24	13:20 Central		Solid			X	2	
Cell18-Square 120-S-3-4-240717 (860-78488-5)		7/17/24	14:00 Central		Solid			X	2	
Cell21-Square 194-S-3-4-240717 (860-78488-6)		7/17/24	15:10 Central		Solid			X	2	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:										
Empy Kit Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Relinquished by: _____				Date: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____				Time: _____ Method of Shipment: _____ Received by: _____ Received by: _____ Received by: _____		
Custody Seals Intact: _____				Custody Seal No.: _____				Cooler Temperature(s) °C and Other Remarks		



Chain of Custody Record

4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Client Information (Sub Contract Lab)				Lab PM: Kudchadkar, Sachin G		Carrier Tracking No(s) 860-139256.1	
Client Contact Shipping/Receiving				E-Mail: Sachin.Kudchadkar@et.eurofinsus.com		State of Origin: Texas	
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): NELAP - Texas		Job #: 860-78488-1	
Address: 4955 Yarrow Street,				Due Date Requested: 8/5/2024		Preservation Codes:	
City: Arvada				TAT Requested (days):			
State Zip: CO, 80002				PO #:			
Phone: 303-736-0100(Tel) 303-431-7171(Fax)				WO #:			
Email:				Project #: 86002103			
Site: Chevron - Jal Land Farm Soils				SSOW#:			

Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	830B/Dry_Sample (MOD) DOD Sublist	Total Number of Containers	Special Instructions/Note:
Cell17-Square 6-S-3-4-240717 (860-78488-1)	7/17/24	09:40 Central	Solid	X	X	2						
Cell18-Square 63-S-3-4-240717 (860-78488-2)	7/17/24	10:50 Central	Solid	X	X	2						
Cell18-Square 142-S-3-4-240717 (860-78488-3)	7/17/24	12:00 Central	Solid	X	X	2						
Cell18-Square 140-S-3-4-240717 (860-78488-4)	7/17/24	13:20 Central	Solid	X	X	2						
Cell18-Square 120-S-3-4-240717 (860-78488-5)	7/17/24	14:00 Central	Solid	X	X	2						
Cell21-Square 194-S-3-4-240717 (860-78488-6)	7/17/24	15:10 Central	Solid	X	X	2						

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)		Return To Client ☐ Disposal By Lab ☐	
Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:	Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Custody Seals Intact: A Yes A No	Custody Seal No.:
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Ver: 04/02/2024

Eurofins Houston

4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record



Environment Testing

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Environment Testing



Chain of Custody Record

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Ver: 04/02/2024

Eurofins Houston

4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record



eurofins | Environment Testing

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Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78488-1

Login Number: 78488

List Source: Eurofins Houston

List Number: 1

Creator: Jimenez, Nicanor

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78488-1

Login Number: 78488

List Number: 2

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

List Creation: 07/20/24 11:17 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
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	2.8
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78488-1

Login Number: 78488

List Number: 3

Creator: Little, Matthew L

List Source: Eurofins Denver

List Creation: 07/20/24 11:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78488-1

Login Number: 78488

List Number: 4

Creator: Roberts, Darrien

List Source: Eurofins Pensacola

List Creation: 07/20/24 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	2.8°C IR11
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78488-1

Login Number: 78488

List Number: 5

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 07/22/24 11:14 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
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.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 7/29/2024 11:03:54 AM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-78591-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

Eurofins Houston

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
7/29/2024 11:03:54 AM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-78591-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

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: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Job ID: 860-78591-1

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Job Narrative 860-78591-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 7/19/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

Gasoline Range Organics

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

General Chemistry

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

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Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Client Sample ID: Cell17-Square201-S-3-4-240718	Lab Sample ID: 860-78591-1
No Detections.	
Client Sample ID: Cell21-Square126-S-3-4-240718	Lab Sample ID: 860-78591-2
No Detections.	
Client Sample ID: Cell21-Square124-S-3-4-240718	Lab Sample ID: 860-78591-3
No Detections.	
Client Sample ID: Cell21-Square120-S-3-4-240718	Lab Sample ID: 860-78591-4
No Detections.	
Client Sample ID: Cell21-Square98-S-3-4-240718	Lab Sample ID: 860-78591-5
No Detections.	
Client Sample ID: Cell25-Square151-S-3-4-240718	Lab Sample ID: 860-78591-6
No Detections.	
Client Sample ID: Cell25-Square184-S-3-4-240718	Lab Sample ID: 860-78591-7
No Detections.	
Client Sample ID: Cell25-Square120-5S-3-4-240718	Lab Sample ID: 860-78591-8
No Detections.	
Client Sample ID: Cell25-Square81-S-3-4-240718	Lab Sample ID: 860-78591-9
No Detections.	

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Client Sample ID: Cell17-Square201-S-3-4-240718

Lab Sample ID: 860-78591-1

Date Collected: 07/18/24 10:00

Matrix: Solid

Date Received: 07/19/24 12:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.8				%			07/23/24 11:12	1
Percent Solids (EPA Moisture)	96.2				%			07/23/24 11:12	1

Client Sample ID: Cell17-Square201-S-3-4-240718

Lab Sample ID: 860-78591-1

Date Collected: 07/18/24 10:00

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 96.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.60	U	10.4	2.60	mg/Kg	☼	07/26/24 09:23	07/27/24 15:48	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/26/24 09:23	07/27/24 15:48	50

Client Sample ID: Cell21-Square126-S-3-4-240718

Lab Sample ID: 860-78591-2

Date Collected: 07/18/24 10:35

Matrix: Solid

Date Received: 07/19/24 12:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.6				%			07/23/24 11:27	1
Percent Solids (EPA Moisture)	95.4				%			07/23/24 11:27	1

Client Sample ID: Cell21-Square126-S-3-4-240718

Lab Sample ID: 860-78591-2

Date Collected: 07/18/24 10:35

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 95.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.60	U	10.4	2.60	mg/Kg	☼	07/26/24 09:23	07/27/24 16:21	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				07/26/24 09:23	07/27/24 16:21	50

Client Sample ID: Cell21-Square124-S-3-4-240718

Lab Sample ID: 860-78591-3

Date Collected: 07/18/24 11:15

Matrix: Solid

Date Received: 07/19/24 12:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.4				%			07/23/24 11:27	1
Percent Solids (EPA Moisture)	94.6				%			07/23/24 11:27	1

Client Sample ID: Cell21-Square124-S-3-4-240718

Lab Sample ID: 860-78591-3

Date Collected: 07/18/24 11:15

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 94.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.62	U	10.5	2.62	mg/Kg	☼	07/26/24 09:23	07/27/24 16:54	50

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Client Sample ID: Cell21-Square124-S-3-4-240718

Lab Sample ID: 860-78591-3

Date Collected: 07/18/24 11:15

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 94.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/26/24 09:23	07/27/24 16:54	50

Client Sample ID: Cell21-Square120-S-3-4-240718

Lab Sample ID: 860-78591-4

Date Collected: 07/18/24 11:50

Matrix: Solid

Date Received: 07/19/24 12:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.8				%			07/23/24 11:27	1
Percent Solids (EPA Moisture)	87.2				%			07/23/24 11:27	1

Client Sample ID: Cell21-Square120-S-3-4-240718

Lab Sample ID: 860-78591-4

Date Collected: 07/18/24 11:50

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 87.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.90	U	11.6	2.90	mg/Kg	☼	07/26/24 09:23	07/27/24 17:27	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				07/26/24 09:23	07/27/24 17:27	50

Client Sample ID: Cell21-Square98-S-3-4-240718

Lab Sample ID: 860-78591-5

Date Collected: 07/18/24 12:15

Matrix: Solid

Date Received: 07/19/24 12:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.4				%			07/23/24 11:27	1
Percent Solids (EPA Moisture)	93.6				%			07/23/24 11:27	1

Client Sample ID: Cell21-Square98-S-3-4-240718

Lab Sample ID: 860-78591-5

Date Collected: 07/18/24 12:15

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 93.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.67	U	10.7	2.67	mg/Kg	☼	07/26/24 09:23	07/27/24 18:01	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/26/24 09:23	07/27/24 18:01	50

Client Sample ID: Cell25-Square151-S-3-4-240718

Lab Sample ID: 860-78591-6

Date Collected: 07/18/24 12:15

Matrix: Solid

Date Received: 07/19/24 12:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.2				%			07/23/24 11:27	1
Percent Solids (EPA Moisture)	96.8				%			07/23/24 11:27	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Client Sample ID: Cell25-Square151-S-3-4-240718

Lab Sample ID: 860-78591-6

Date Collected: 07/18/24 12:15

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 96.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.57	U	10.3	2.57	mg/Kg	☼	07/26/24 09:23	07/27/24 18:34	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/26/24 09:23	07/27/24 18:34	50

Client Sample ID: Cell25-Square184-S-3-4-240718

Lab Sample ID: 860-78591-7

Date Collected: 07/18/24 12:50

Matrix: Solid

Date Received: 07/19/24 12:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.5				%			07/23/24 11:27	1
Percent Solids (EPA Moisture)	85.5				%			07/23/24 11:27	1

Client Sample ID: Cell25-Square184-S-3-4-240718

Lab Sample ID: 860-78591-7

Date Collected: 07/18/24 12:50

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 85.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.90	U	11.6	2.90	mg/Kg	☼	07/26/24 09:23	07/27/24 19:07	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				07/26/24 09:23	07/27/24 19:07	50

Client Sample ID: Cell25-Square120-5S-3-4-240718

Lab Sample ID: 860-78591-8

Date Collected: 07/18/24 13:20

Matrix: Solid

Date Received: 07/19/24 12:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	25.5				%			07/23/24 11:27	1
Percent Solids (EPA Moisture)	74.5				%			07/23/24 11:27	1

Client Sample ID: Cell25-Square120-5S-3-4-240718

Lab Sample ID: 860-78591-8

Date Collected: 07/18/24 13:20

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 74.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.33	U	13.3	3.33	mg/Kg	☼	07/26/24 09:23	07/27/24 19:40	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/26/24 09:23	07/27/24 19:40	50

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Client Sample ID: Cell25-Square81-S-3-4-240718
Date Collected: 07/18/24 14:50
Date Received: 07/19/24 12:30

Lab Sample ID: 860-78591-9
Matrix: Solid

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture (EPA Moisture)	7.3				%			07/23/24 12:42	1	
Percent Solids (EPA Moisture)	92.7				%			07/23/24 12:42	1	

Client Sample ID: Cell25-Square81-S-3-4-240718
Date Collected: 07/18/24 14:50
Date Received: 07/19/24 12:30

Lab Sample ID: 860-78591-9
Matrix: Solid
Percent Solids: 92.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	2.72	U	10.9	2.72	mg/Kg	☼	07/26/24 09:23	07/28/24 14:21	50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		70 - 130				07/26/24 09:23	07/28/24 14:21	50	

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1					
		(70-130)					
860-78591-1	Cell17-Square201-S-3-4-240718	103					
860-78591-2	Cell21-Square126-S-3-4-240718	100					
860-78591-3	Cell21-Square124-S-3-4-240718	100					
860-78591-4	Cell21-Square120-S-3-4-240718	111					
860-78591-5	Cell21-Square98-S-3-4-240718	104					
860-78591-6	Cell25-Square151-S-3-4-240718	104					
860-78591-7	Cell25-Square184-S-3-4-240718	100					
860-78591-8	Cell25-Square120-5S-3-4-240718	103					
860-78591-9	Cell25-Square81-S-3-4-240718	99					
LCS 860-177996/4	Lab Control Sample	100					
LCS 860-178067/4	Lab Control Sample	98					
LCSD 860-177996/5	Lab Control Sample Dup	99					
LCSD 860-178067/5	Lab Control Sample Dup	101					
MB 860-177996/7	Method Blank	99					
MB 860-178067/7	Method Blank	98					
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-177996/7

Matrix: Solid

Analysis Batch: 177996

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			07/27/24 14:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130					07/27/24 14:41	1

Lab Sample ID: LCS 860-177996/4

Matrix: Solid

Analysis Batch: 177996

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 860-177996/5

Matrix: Solid

Analysis Batch: 177996

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 860-178067/7

Matrix: Solid

Analysis Batch: 178067

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			07/28/24 13:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130					07/28/24 13:48	1

Lab Sample ID: LCS 860-178067/4

Matrix: Solid

Analysis Batch: 178067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 860-178067/5

Matrix: Solid

Analysis Batch: 178067

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-177048/1										Client Sample ID: Method Blank	
Matrix: Solid										Prep Type: Total/NA	
Analysis Batch: 177048											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Percent Moisture	-0.07				%			07/23/24 11:12	1		
Percent Solids	100.1				%			07/23/24 11:12	1		

Lab Sample ID: MB 860-177061/1										Client Sample ID: Method Blank	
Matrix: Solid										Prep Type: Total/NA	
Analysis Batch: 177061											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Percent Moisture	0.03				%			07/23/24 11:27	1		
Percent Solids	100				%			07/23/24 11:27	1		

Lab Sample ID: 860-78591-8 DU										Client Sample ID: Cell25-Square120-5S-3-4-240718	
Matrix: Solid										Prep Type: Total/NA	
Analysis Batch: 177061											
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	Limit	
Percent Moisture	25.5			24.6		%			4	20	
Percent Solids	74.5			75.4		%			1	20	

Lab Sample ID: MB 860-177103/1										Client Sample ID: Method Blank	
Matrix: Solid										Prep Type: Total/NA	
Analysis Batch: 177103											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Percent Moisture	0.02				%			07/23/24 12:42	1		
Percent Solids	100				%			07/23/24 12:42	1		

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

GC VOA

Prep Batch: 177777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78591-1	Cell17-Square201-S-3-4-240718	Total/NA	Solid	5030C	
860-78591-2	Cell21-Square126-S-3-4-240718	Total/NA	Solid	5030C	
860-78591-3	Cell21-Square124-S-3-4-240718	Total/NA	Solid	5030C	
860-78591-4	Cell21-Square120-S-3-4-240718	Total/NA	Solid	5030C	
860-78591-5	Cell21-Square98-S-3-4-240718	Total/NA	Solid	5030C	
860-78591-6	Cell25-Square151-S-3-4-240718	Total/NA	Solid	5030C	
860-78591-7	Cell25-Square184-S-3-4-240718	Total/NA	Solid	5030C	
860-78591-8	Cell25-Square120-5S-3-4-240718	Total/NA	Solid	5030C	
860-78591-9	Cell25-Square81-S-3-4-240718	Total/NA	Solid	5030C	

Analysis Batch: 177996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78591-1	Cell17-Square201-S-3-4-240718	Total/NA	Solid	8015D	177777
860-78591-2	Cell21-Square126-S-3-4-240718	Total/NA	Solid	8015D	177777
860-78591-3	Cell21-Square124-S-3-4-240718	Total/NA	Solid	8015D	177777
860-78591-4	Cell21-Square120-S-3-4-240718	Total/NA	Solid	8015D	177777
860-78591-5	Cell21-Square98-S-3-4-240718	Total/NA	Solid	8015D	177777
860-78591-6	Cell25-Square151-S-3-4-240718	Total/NA	Solid	8015D	177777
860-78591-7	Cell25-Square184-S-3-4-240718	Total/NA	Solid	8015D	177777
860-78591-8	Cell25-Square120-5S-3-4-240718	Total/NA	Solid	8015D	177777
MB 860-177996/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-177996/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-177996/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

Analysis Batch: 178067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78591-9	Cell25-Square81-S-3-4-240718	Total/NA	Solid	8015D	177777
MB 860-178067/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-178067/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-178067/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

General Chemistry

Analysis Batch: 177048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78591-1	Cell17-Square201-S-3-4-240718	Total/NA	Solid	Moisture	
MB 860-177048/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 177061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78591-2	Cell21-Square126-S-3-4-240718	Total/NA	Solid	Moisture	
860-78591-3	Cell21-Square124-S-3-4-240718	Total/NA	Solid	Moisture	
860-78591-4	Cell21-Square120-S-3-4-240718	Total/NA	Solid	Moisture	
860-78591-5	Cell21-Square98-S-3-4-240718	Total/NA	Solid	Moisture	
860-78591-6	Cell25-Square151-S-3-4-240718	Total/NA	Solid	Moisture	
860-78591-7	Cell25-Square184-S-3-4-240718	Total/NA	Solid	Moisture	
860-78591-8	Cell25-Square120-5S-3-4-240718	Total/NA	Solid	Moisture	
MB 860-177061/1	Method Blank	Total/NA	Solid	Moisture	
860-78591-8 DU	Cell25-Square120-5S-3-4-240718	Total/NA	Solid	Moisture	

Eurofins Houston

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

General Chemistry

Analysis Batch: 177103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78591-9	Cell25-Square81-S-3-4-240718	Total/NA	Solid	Moisture	
MB 860-177103/1	Method Blank	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Client Sample ID: Cell17-Square201-S-3-4-240718

Lab Sample ID: 860-78591-1

Date Collected: 07/18/24 10:00

Matrix: Solid

Date Received: 07/19/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177048	07/23/24 11:12	JC	EET HOU

Client Sample ID: Cell17-Square201-S-3-4-240718

Lab Sample ID: 860-78591-1

Date Collected: 07/18/24 10:00

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177996	07/27/24 15:48	KLV	EET HOU

Client Sample ID: Cell21-Square126-S-3-4-240718

Lab Sample ID: 860-78591-2

Date Collected: 07/18/24 10:35

Matrix: Solid

Date Received: 07/19/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177061	07/23/24 11:27	JC	EET HOU

Client Sample ID: Cell21-Square126-S-3-4-240718

Lab Sample ID: 860-78591-2

Date Collected: 07/18/24 10:35

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177996	07/27/24 16:21	KLV	EET HOU

Client Sample ID: Cell21-Square124-S-3-4-240718

Lab Sample ID: 860-78591-3

Date Collected: 07/18/24 11:15

Matrix: Solid

Date Received: 07/19/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177061	07/23/24 11:27	JC	EET HOU

Client Sample ID: Cell21-Square124-S-3-4-240718

Lab Sample ID: 860-78591-3

Date Collected: 07/18/24 11:15

Matrix: Solid

Date Received: 07/19/24 12:30

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	5030C			5.05 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177996	07/27/24 16:54	KLV	EET HOU

Client Sample ID: Cell21-Square120-S-3-4-240718

Lab Sample ID: 860-78591-4

Date Collected: 07/18/24 11:50

Matrix: Solid

Date Received: 07/19/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177061	07/23/24 11:27	JC	EET HOU

Eurofins Houston

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Client Sample ID: Cell21-Square120-S-3-4-240718

Lab Sample ID: 860-78591-4

Date Collected: 07/18/24 11:50

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177996	07/27/24 17:27	KLV	EET HOU

Client Sample ID: Cell21-Square98-S-3-4-240718

Lab Sample ID: 860-78591-5

Date Collected: 07/18/24 12:15

Matrix: Solid

Date Received: 07/19/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177061	07/23/24 11:27	JC	EET HOU

Client Sample ID: Cell21-Square98-S-3-4-240718

Lab Sample ID: 860-78591-5

Date Collected: 07/18/24 12:15

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177996	07/27/24 18:01	KLV	EET HOU

Client Sample ID: Cell25-Square151-S-3-4-240718

Lab Sample ID: 860-78591-6

Date Collected: 07/18/24 12:15

Matrix: Solid

Date Received: 07/19/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177061	07/23/24 11:27	JC	EET HOU

Client Sample ID: Cell25-Square151-S-3-4-240718

Lab Sample ID: 860-78591-6

Date Collected: 07/18/24 12:15

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177996	07/27/24 18:34	KLV	EET HOU

Client Sample ID: Cell25-Square184-S-3-4-240718

Lab Sample ID: 860-78591-7

Date Collected: 07/18/24 12:50

Matrix: Solid

Date Received: 07/19/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177061	07/23/24 11:27	JC	EET HOU

Eurofins Houston

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Client Sample ID: Cell25-Square184-S-3-4-240718

Lab Sample ID: 860-78591-7

Date Collected: 07/18/24 12:50

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177996	07/27/24 19:07	KLV	EET HOU

Client Sample ID: Cell25-Square120-5S-3-4-240718

Lab Sample ID: 860-78591-8

Date Collected: 07/18/24 13:20

Matrix: Solid

Date Received: 07/19/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177061	07/23/24 11:27	JC	EET HOU

Client Sample ID: Cell25-Square120-5S-3-4-240718

Lab Sample ID: 860-78591-8

Date Collected: 07/18/24 13:20

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177996	07/27/24 19:40	KLV	EET HOU

Client Sample ID: Cell25-Square81-S-3-4-240718

Lab Sample ID: 860-78591-9

Date Collected: 07/18/24 14:50

Matrix: Solid

Date Received: 07/19/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177103	07/23/24 12:42	LT	EET HOU

Client Sample ID: Cell25-Square81-S-3-4-240718

Lab Sample ID: 860-78591-9

Date Collected: 07/18/24 14:50

Matrix: Solid

Date Received: 07/19/24 12:30

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	178067	07/28/24 14:21	KLV	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	06-30-25
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78591-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-78591-1	Cell17-Square201-S-3-4-240718	Solid	07/18/24 10:00	07/19/24 12:30
860-78591-2	Cell21-Square126-S-3-4-240718	Solid	07/18/24 10:35	07/19/24 12:30
860-78591-3	Cell21-Square124-S-3-4-240718	Solid	07/18/24 11:15	07/19/24 12:30
860-78591-4	Cell21-Square120-S-3-4-240718	Solid	07/18/24 11:50	07/19/24 12:30
860-78591-5	Cell21-Square98-S-3-4-240718	Solid	07/18/24 12:15	07/19/24 12:30
860-78591-6	Cell25-Square151-S-3-4-240718	Solid	07/18/24 12:15	07/19/24 12:30
860-78591-7	Cell25-Square184-S-3-4-240718	Solid	07/18/24 12:50	07/19/24 12:30
860-78591-8	Cell25-Square120-5S-3-4-240718	Solid	07/18/24 13:20	07/19/24 12:30
860-78591-9	Cell25-Square81-S-3-4-240718	Solid	07/18/24 14:50	07/19/24 12:30



Eurofins Houston

4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record



Environ Biol Fish (2015) 98:1031–1042

Client Information		Sampler <i>Dave Miller</i>	Lab PM: Kudchadkar Sachin G	COC No: 860-21675-7631 1
Client Contact: Sarah Johnson	Phone: 437-994-2980	E-Mail: Sachin.Kudchadkar@eteuroinsus.com	Carrier Tracking No(s): <i>N/A</i>	Page: <i>1 of 1</i>
Company: ARCADIS US Inc	PMSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Date Date Requested:			
City: Midland	TAT Requested (days): <i>Standard</i>			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: <i>Jal Land Farm</i>	SSOW#:			
Sample Identification		Field Filtered Sample (Yes or No)		
		Perform MS/MSD (Yes or No)		
Cell 17-Square 201-S-3-4-240748	Sample Date: 7-18-24	Sample Time: 1000	Sample Type (C=Comp, G=Grab) Preservation Code: G	Matrix (Inorganic, Semi-volatile, Organometals, Inorganics, Aqueous) Solid
Cell 18-Square 126-S-3-4-240748				X X X
Cell 21-Square 124-S-3-4-240748		1115		Solid X X X
Cell 21-Square 120-S-3-4-240748		1150		Solid X X X
Cell 21-Square 98-S-3-4-240748		7-18-24	G	Solid X X X
Cell 25-Square 151-S-3-4-240748		7-18-24	G	Solid X X X
Cell 25-Square 184-S-3-4-240748		(300)		Solid X X X
Cell 25-Square 120-S-3-4-240748		14110		Solid X X X
Cell 25-Square 81-S-3-4-240748		7-18-24	G	Solid X X X
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
☒ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Unknown
Deliverable Requested: I, II, III, IV Other (specify)		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 7-18-24 / 1520	Company: Arcadis	Received by:	
Relinquished by:	Date/Time:	Company:	Received by: <i>Mueen</i>	
Relinquished by:	Date/Time:	Company:	Received by:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78591-1

Login Number: 78591

List Number: 1

Creator: Jimenez, Nicanor

List Source: Eurofins Houston

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 7/27/2024 2:38:28 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-78621-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

Eurofins Houston

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
7/27/2024 2:38:28 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-78621-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

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: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Job ID: 860-78621-1

Eurofins Houston

Job Narrative
860-78621-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 7/20/2024 8:22 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 5.9°C.

Gasoline Range Organics

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

General Chemistry

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

Eurofins Houston

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Client Sample ID: Cell26-Square-41-S-3-4-240719

Lab Sample ID: 860-78621-1

No Detections.

Client Sample ID: Cell26-Square-175-S-3-4-240719

Lab Sample ID: 860-78621-2

No Detections.

Client Sample ID: Cell26-Square-151-S-3-4-240719

Lab Sample ID: 860-78621-3

No Detections.

Client Sample ID: Cell26-Square-85-S-3-4-240719

Lab Sample ID: 860-78621-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Client Sample ID: Cell26-Square-41-S-3-4-240719

Lab Sample ID: 860-78621-1

Date Collected: 07/19/24 10:20

Matrix: Solid

Date Received: 07/20/24 08:22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.6				%			07/23/24 12:42	1
Percent Solids (EPA Moisture)	88.4				%			07/23/24 12:42	1

Client Sample ID: Cell26-Square-41-S-3-4-240719

Lab Sample ID: 860-78621-1

Date Collected: 07/19/24 10:20

Matrix: Solid

Date Received: 07/20/24 08:22

Percent Solids: 88.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.82	U	11.3	2.82	mg/Kg	☼	07/26/24 09:23	07/26/24 17:35	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				07/26/24 09:23	07/26/24 17:35	50

Client Sample ID: Cell26-Square-175-S-3-4-240719

Lab Sample ID: 860-78621-2

Date Collected: 07/19/24 10:50

Matrix: Solid

Date Received: 07/20/24 08:22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.5				%			07/23/24 12:42	1
Percent Solids (EPA Moisture)	90.5				%			07/23/24 12:42	1

Client Sample ID: Cell26-Square-175-S-3-4-240719

Lab Sample ID: 860-78621-2

Date Collected: 07/19/24 10:50

Matrix: Solid

Date Received: 07/20/24 08:22

Percent Solids: 90.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.79	U	11.2	2.79	mg/Kg	☼	07/26/24 09:23	07/26/24 18:08	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				07/26/24 09:23	07/26/24 18:08	50

Client Sample ID: Cell26-Square-151-S-3-4-240719

Lab Sample ID: 860-78621-3

Date Collected: 07/19/24 11:25

Matrix: Solid

Date Received: 07/20/24 08:22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.8				%			07/23/24 12:42	1
Percent Solids (EPA Moisture)	93.3				%			07/23/24 12:42	1

Client Sample ID: Cell26-Square-151-S-3-4-240719

Lab Sample ID: 860-78621-3

Date Collected: 07/19/24 11:25

Matrix: Solid

Date Received: 07/20/24 08:22

Percent Solids: 93.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.67	U	10.7	2.67	mg/Kg	☼	07/26/24 09:23	07/26/24 18:41	50

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Client Sample ID: Cell26-Square-151-S-3-4-240719
Date Collected: 07/19/24 11:25
Date Received: 07/20/24 08:22

Lab Sample ID: 860-78621-3
Matrix: Solid
Percent Solids: 93.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/26/24 09:23	07/26/24 18:41	50

Client Sample ID: Cell26-Square-85-S-3-4-240719
Date Collected: 07/19/24 12:00
Date Received: 07/20/24 08:22

Lab Sample ID: 860-78621-4
Matrix: Solid

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture (EPA Moisture)	25.9				%			07/23/24 12:42	1	
Percent Solids (EPA Moisture)	74.1				%			07/23/24 12:42	1	

Client Sample ID: Cell26-Square-85-S-3-4-240719
Date Collected: 07/19/24 12:00
Date Received: 07/20/24 08:22

Lab Sample ID: 860-78621-4
Matrix: Solid
Percent Solids: 74.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.35	U	13.4	3.35	mg/Kg	☼	07/26/24 09:23	07/26/24 19:14	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				07/26/24 09:23	07/26/24 19:14	50

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (70-130)
860-78621-1	Cell26-Square-41-S-3-4-240719	97
860-78621-2	Cell26-Square-175-S-3-4-240719	95
860-78621-3	Cell26-Square-151-S-3-4-240719	96
860-78621-4	Cell26-Square-85-S-3-4-240719	97
LCS 860-177774/4	Lab Control Sample	103
LCSD 860-177774/5	Lab Control Sample Dup	99
MB 860-177774/7	Method Blank	93
Surrogate Legend		
BFB = 4-Bromofluorobenzene (Surr)		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-177774/7

Matrix: Solid

Analysis Batch: 177774

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			07/26/24 17:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130					07/26/24 17:02	1

Lab Sample ID: LCS 860-177774/4

Matrix: Solid

Analysis Batch: 177774

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 860-177774/5

Matrix: Solid

Analysis Batch: 177774

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-177103/1

Matrix: Solid

Analysis Batch: 177103

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.02				%			07/23/24 12:42	1
Percent Solids	100				%			07/23/24 12:42	1

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

GC VOA

Analysis Batch: 177774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78621-1	Cell26-Square-41-S-3-4-240719	Total/NA	Solid	8015D	177777
860-78621-2	Cell26-Square-175-S-3-4-240719	Total/NA	Solid	8015D	177777
860-78621-3	Cell26-Square-151-S-3-4-240719	Total/NA	Solid	8015D	177777
860-78621-4	Cell26-Square-85-S-3-4-240719	Total/NA	Solid	8015D	177777
MB 860-177774/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-177774/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-177774/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

Prep Batch: 177777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78621-1	Cell26-Square-41-S-3-4-240719	Total/NA	Solid	5030C	
860-78621-2	Cell26-Square-175-S-3-4-240719	Total/NA	Solid	5030C	
860-78621-3	Cell26-Square-151-S-3-4-240719	Total/NA	Solid	5030C	
860-78621-4	Cell26-Square-85-S-3-4-240719	Total/NA	Solid	5030C	

General Chemistry

Analysis Batch: 177103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-78621-1	Cell26-Square-41-S-3-4-240719	Total/NA	Solid	Moisture	
860-78621-2	Cell26-Square-175-S-3-4-240719	Total/NA	Solid	Moisture	
860-78621-3	Cell26-Square-151-S-3-4-240719	Total/NA	Solid	Moisture	
860-78621-4	Cell26-Square-85-S-3-4-240719	Total/NA	Solid	Moisture	
MB 860-177103/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Client Sample ID: Cell26-Square-41-S-3-4-240719

Lab Sample ID: 860-78621-1

Date Collected: 07/19/24 10:20

Matrix: Solid

Date Received: 07/20/24 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177103	07/23/24 12:42	LT	EET HOU

Client Sample ID: Cell26-Square-41-S-3-4-240719

Lab Sample ID: 860-78621-1

Date Collected: 07/19/24 10:20

Matrix: Solid

Date Received: 07/20/24 08:22

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177774	07/26/24 17:35	KLV	EET HOU

Client Sample ID: Cell26-Square-175-S-3-4-240719

Lab Sample ID: 860-78621-2

Date Collected: 07/19/24 10:50

Matrix: Solid

Date Received: 07/20/24 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177103	07/23/24 12:42	LT	EET HOU

Client Sample ID: Cell26-Square-175-S-3-4-240719

Lab Sample ID: 860-78621-2

Date Collected: 07/19/24 10:50

Matrix: Solid

Date Received: 07/20/24 08:22

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177774	07/26/24 18:08	KLV	EET HOU

Client Sample ID: Cell26-Square-151-S-3-4-240719

Lab Sample ID: 860-78621-3

Date Collected: 07/19/24 11:25

Matrix: Solid

Date Received: 07/20/24 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177103	07/23/24 12:42	LT	EET HOU

Client Sample ID: Cell26-Square-151-S-3-4-240719

Lab Sample ID: 860-78621-3

Date Collected: 07/19/24 11:25

Matrix: Solid

Date Received: 07/20/24 08:22

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	5030C			5.02 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177774	07/26/24 18:41	KLV	EET HOU

Client Sample ID: Cell26-Square-85-S-3-4-240719

Lab Sample ID: 860-78621-4

Date Collected: 07/19/24 12:00

Matrix: Solid

Date Received: 07/20/24 08:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			177103	07/23/24 12:42	LT	EET HOU

Eurofins Houston

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Client Sample ID: Cell26-Square-85-S-3-4-240719
Date Collected: 07/19/24 12:00
Date Received: 07/20/24 08:22

Lab Sample ID: 860-78621-4
Matrix: Solid
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	177777	07/26/24 09:23	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	177774	07/26/24 19:14	KLV	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	06-30-25
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

- 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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-78621-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-78621-1	Cell26-Square-41-S-3-4-240719	Solid	07/19/24 10:20	07/20/24 08:22
860-78621-2	Cell26-Square-175-S-3-4-240719	Solid	07/19/24 10:50	07/20/24 08:22
860-78621-3	Cell26-Square-151-S-3-4-240719	Solid	07/19/24 11:25	07/20/24 08:22
860-78621-4	Cell26-Square-85-S-3-4-240719	Solid	07/19/24 12:00	07/20/24 08:22

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Eurofins Houston

4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

86U-78621 Chain of Custody



eurofins

Est. for. men. (Est. 75)

[illegible]

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 860-78621-1

Login Number: 78621

List Number: 1

Creator: Torres, Sandra

List Source: Eurofins Houston

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
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	5.9
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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Fax: 720 344 3535
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Sante Fe Main Office
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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

CONDITIONS

Action 392247

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 392247
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
jeffrey.harrison	Release Response Sampling Results and Action Plan-July 2024 accepted for records retention only. Releases to vadose zone at landfarm cells being addressed and remediated under incident # NAPP2113741693.	1/29/2025